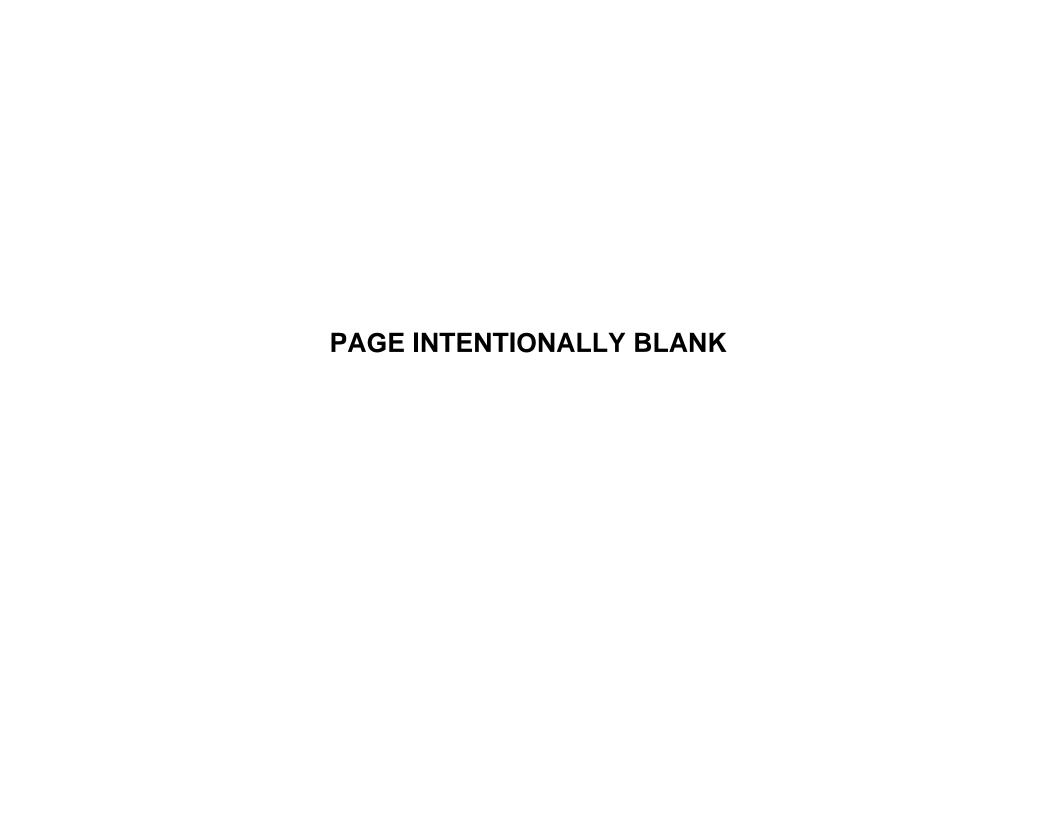
DEPARTMENT OF THE NAVY FISCAL YEAR (FY) 2010 BUDGET ESTIMATES



JUSTIFICATION OF ESTIMATES MAY 2009

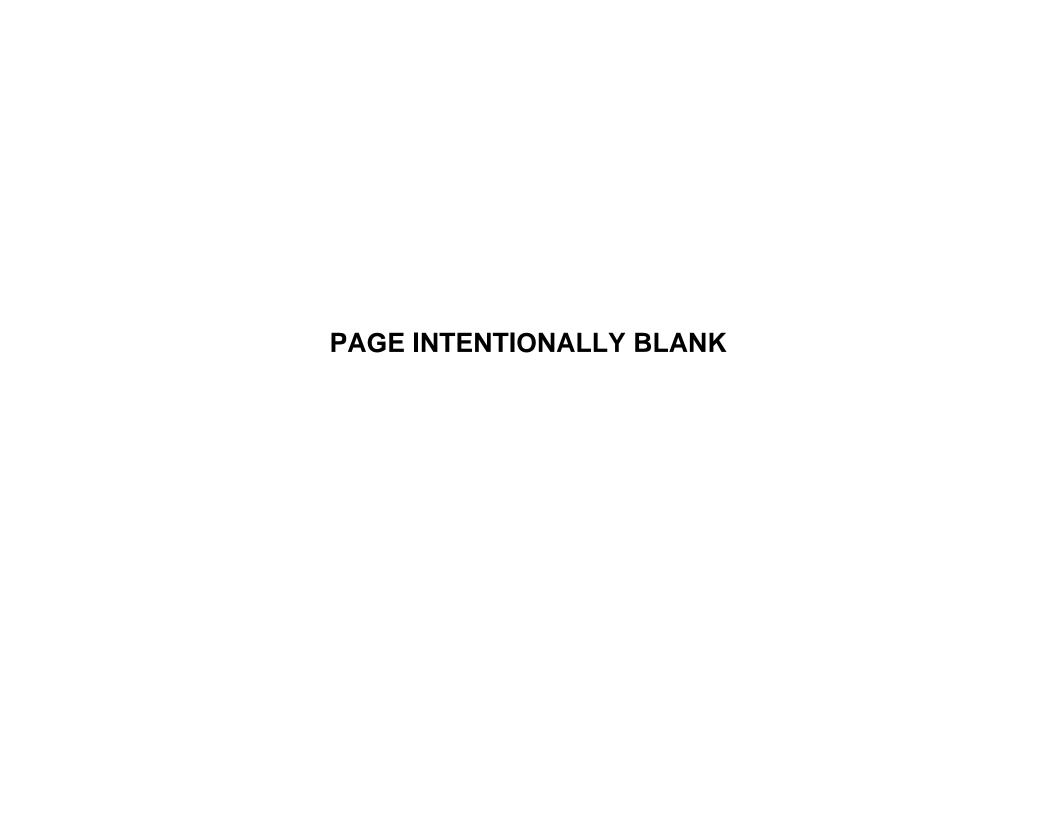
PROCUREMENT, MARINE CORPS



Department of Defense Appropriations Act, 2010

Procurement, Marine Corps

For expenses necessary for the procurement, manufacture, and modification of missiles, armament, military equipment, spare parts, and accessories therefore; plant equipment, appliances, and machines tools, and installation thereof in public and private plants; reserve plant and Government and contractor-owned equipment layaway; vehicles for the Marine Corps, including the purchase of passenger motor vehicles for replacement only; and expansion of public and private plants, including land necessary therefore, and such lands and interests therein, may be acquired, and construction prosecuted thereon prior to approval of title, \$2,765,083,000 to remain available for obligation until September 30, 2012.



Department of the Navy FY 2010/2011 President's Budget

Exhibit P-1 FY 2010 Base and Overseas Contingency Operations (OCO) Request

Summary

(Dollars in Thousands)

APPROPRIATION: Procurement, Marine Corps

Budget Activity	FY 2008 Base&OCO Actuals	FY 2009 Base&OCO SupReq 4/9/09	FY 2010 Base	FY 2010 OCO	FY 2010 Total
02. Weapons and combat vehicles	700,533	776,266	224,760	144,914	369,674
03. Guided missiles and equipment	58,671	108,633	110,059	8,506	118,565
04. Communications & electronics equipment	1,824,236	1,002,507	552,076	167,258	719,334
05. Support vehicles	1,047,229	581,288	309,531	418,864	728,395
06. Engineer and other equipment	2,666,108	1,088,556	362,665	424,903	787,568
TOTAL Procurement, Marine Corps	6,296,777	3,557,250	1,559,091	1,164,445	2,723,536

Exhibit P-1Q: FY 2010 Base and Overseas Contingency Operations (OCO) Request, as of May 5, 2009 at 14:42:06

05 MAY 2009

Department of the Navy FY 2010/2011 President's Budget Exhibit P-1 FY 2010 Base and Overseas Contingency Operations (OCO) Request

(Dollars in Thousands)

APPROPRIATION: 1109N Procurement, Marine Corps DATE: 05 MAY 2009

LINE	IDENT	FY 2 Base Actu	&OCO	Bas	2009 se&OCO q 4/9/09	FY :	2010 ase	FY 2		FY 2 Tota		S E
NO ITEM NOMENCLATURE	CODE	Quantity	Cost	Quantity	•	Quantity	Cost	Quantity	Cost	Quantity	Cost	C -
BUDGET ACTIVITY 02: Weapons and combat vehicles												
TRACKED COMBAT VEHICLES												
1 AAV7A1 PIP	A		28,556		5,462		9,127				9,127	U
2 LAV PIP	A		119,699		231,988		34,969		58,229		93,198	U
3 IMPROVED RECOVERY VEHICLE (IRV)	A		7,600									U
4 M1A1 FIREPOWER ENHANCEMENTS	A		14,674		14,663							U
ARTILLERY AND OTHER WEAPONS												
5 EXPEDITIONARY FIRE SUPPORT SYSTEM	A		3,869	24	22,037	20	19,591			20	19,591	U
6 155MM LIGHTWEIGHT TOWED HOWITZER	В	100	237,702	24	71,493		7,420	18	54,000	18	61,420	U
7 HIGH MOBILITY ARTILLERY ROCKET SYSTEM	A		30,164		143,967		71,476				71,476	U
8 WEAPONS AND COMBAT VEHICLES UNDER \$5 MILLION	A		66,154		31,778		25,949		3,351		29,300	U
WEAPONS												
9 MODULAR WEAPON SYSTEM	A		31,562		1,892							U
OTHER SUPPORT												
10 MODIFICATION KITS	A		117,032		196,373		33,990		20,183		54,173	U
11 WEAPONS ENHANCEMENT PROGRAM	A		43,521		56,613		22,238		9,151		31,389	U
TOTAL Weapons and combat vehicles			700,533		776,266		224,760		144,914		369,674	
BUDGET ACTIVITY 03: Guided missiles and equipme	nt											
GUIDED MISSILES												
12 GROUND BASED AIR DEFENSE	А		1,590		5,477		11,387				11,387	U

Exhibit P-1Q: FY 2010 Base and Overseas Contingency Operations (OCO) Request, as of May 5, 2009 at 14:42:06

Department of the Navy FY 2010/2011 President's Budget whibit P-1 FY 2010 Base and Overseas Contingency Operations (C

Exhibit P-1 FY 2010 Base and Overseas Contingency Operations (OCO) Request (Dollars in Thousands)

APPROPRIATION: 1109N Procurement, Marine Corps

LINE NO ITEM NOMENCLATURE	IDENT CODE	FY 2008 Base&OCO Actuals Quantity Cos	-	FY 2010 Base Quantity Cost	FY 2010 OCO Quantity Cost		S E C
13 JAVELIN	A	9,21	5 35,548				U
14 FOLLOW ON TO SMAW	А			25,333		25,333	U
15 ANTI-ARMOR WEAPONS SYSTEM-HEAVY (AAWS-H)				71,225		71,225	U
OTHER SUPPORT							
16 MODIFICATION KITS	А	47,86	•	2,114	8,506	10,620	U
TOTAL Guided missiles and equipment		58,67		110,059	8,506	118,565	
BUDGET ACTIVITY 04: Communications & electron	ics equip	ment					
COMMAND AND CONTROL SYSTEMS							
17 UNIT OPERATIONS CENTER	А	142,25	0 39,387	19,832		19,832	U
REPAIR AND TEST EQUIPMENT							
18 REPAIR AND TEST EQUIPMENT	А	84,07	9 91,356	31,087	11,741	42,828	U
OTHER SUPPORT (TEL)							
19 COMBAT SUPPORT SYSTEM	А	28,03	3 37,008	11,368	462	11,830	U
20 MODIFICATION KITS	А	47,47	6				U
COMMAND AND CONTROL SYSTEM (NON-TEL)							
21 ITEMS UNDER \$5 MILLION (COMM & ELEC)	A	7,16	1 11,915	3,531	4,153	7,684	U
22 AIR OPERATIONS C2 SYSTEMS	A	135,53	1 39,589	45,084	3,096	48,180	U
RADAR + EQUIPMENT (NON-TEL)							
23 RADAR SYSTEMS	A	134,28	3 59,940	7,428	3,417	10,845	U
INTELL/COMM EQUIPMENT (NON-TEL)							
24 FIRE SUPPORT SYSTEM	A	35,88	2 5,651	2,580	521	3,101	U

Exhibit P-1Q: FY 2010 Base and Overseas Contingency Operations (OCO) Request, as of May 5, 2009 at 14:42:06

DATE: 05 MAY 2009

Department of the Navy $FY\ 2010/2011\ President's\ Budget$ Exhibit P-1 FY 2010 Base and Overseas Contingency Operations (OCO) Request (Dollars in Thousands)

APPROPRIATION: 1109N Procurement, Marine Corps DATE: 05 MAY 2009

LINE NO	ITEM NOMENCLATURE	IDENT CODE	FY 2 Base Actu Quantity	&OCO	Ва	-			2010 CO Cost			
25 INT	ELLIGENCE SUPPORT EQUIPMENT	В		205,457		139,961		37,581	37,547		75,128	U
26 RQ-	11 UAV						517	42,403	13,000	517	55,403	U
OTHER	COMM/ELEC EQUIPMENT (NON-TEL)											
27 NIG	HT VISION EQUIPMENT	A		178,569		73,678		10,360	12,570		22,930	U
OTHER	SUPPORT (NON-TEL)											
28 COM	MON COMPUTER RESOURCES	A		164,439		170,088		115,263	23,105		138,368	U
29 COM	MAND POST SYSTEMS	A		75,237		141,334		49,820	23,041		72,861	U
30 RAD	IO SYSTEMS	A		451,536		111,326		61,954	32,497		94,451	U
31 COM	M SWITCHING & CONTROL SYSTEMS	A		110,378		65,793		98,254	2,044		100,298	U
32 COM	M & ELEC INFRASTRUCTURE SUPPORT	A		23,925		15,481		15,531	64		15,595	U
TOTAL C	ommunications & electronics equipment			824,236		1,002,507		552,076	 167,258		719,334	
	ACTIVITY 05: Support vehicles											
ADMINI	STRATIVE VEHICLES											
33 COM	MERCIAL PASSENGER VEHICLES	A		1,061		1,197		1,265			1,265	U
34 COM	MERCIAL CARGO VEHICLES	A		19,633		13,651		13,610			13,610	U
TACTIC	AL VEHICLES											
35 5/4	T TRUCK HMMWV (MYP)	A	1206	352,290	301	180,838	54	9,796	205,036	54	214,832	U
36 MOT	OR TRANSPORT MODIFICATIONS	A		397,398		15,855		6,111	10,177		16,288	U
37 MED	IUM TACTICAL VEHICLE REPLACEMENT	A		78,783		30,832		10,792	131,044		141,836	U
38 LOG	ISTICS VEHICLE SYSTEM REP	A	38	35,473	424	293,495	495	217,390	59,219	495	276,609	U
39 FAM	ILY OF TACTICAL TRAILERS	A		36,502		31,598		26,497	13,388		39,885	U

Exhibit P-1Q: FY 2010 Base and Overseas Contingency Operations (OCO) Request, as of May 5, 2009 at 14:42:06

Department of the Navy $FY\ 2010/2011\ President's\ Budget$ Exhibit P-1 FY 2010 Base and Overseas Contingency Operations (OCO) Request (Dollars in Thousands)

APPROPRIATION: 1109N Procurement, Marine Corps

LINE		IDENT	FY 2008 Base&OCO Actuals	FY 2009 Base&OCO SupReq 4/9/09	FY 2010 Base	FY 2010 OCO	FY 2010 Total	S E
NO 	ITEM NOMENCLATURE	CODE	Quantity Cost	Quantity Cost	Quantity Cost	Quantity Cost	Quantity Cost	C -
40 TRA	AILERS	А	109,152	8,399	18,122		18,122	Ū
OTHER	SUPPORT							
41 ITE	MS LESS THAN \$5 MILLION	А	16,937	5,423	5,948		5,948	U
TOTAL S	Support vehicles		1,047,229	581,288	309,531	418,864	728,395	
	ACTIVITY 06: Engineer and other equipme	ent						
	ER AND OTHER EQUIPMENT							
42 ENV	VIRONMENTAL CONTROL EQUIP ASSORT	А	13,324	9,735	5,121	5,119	10,240	U
43 BUI	K LIQUID EQUIPMENT	А	19,939	13,505	13,035	4,549	17,584	U
44 TAC	TICAL FUEL SYSTEMS	А	37,091	31,643	35,059	33,421	68,480	U
45 POW	JER EQUIPMENT ASSORTED	А	89,972	52,597	21,033	24,860	45,893	U
46 AME	PHIBIOUS SUPPORT EQUIPMENT	А	17,255	13,745	39,876		39,876	U
47 EOI	SYSTEMS	А	1,768,412	352,414	93,335	47,697	141,032	U
MATERI	ALS HANDLING EQUIPMENT							
48 PHY	SICAL SECURITY EQUIPMENT	А	221,361	181,622	12,169	19,720	31,889	U
49 GAF	RRISON MOBILE ENGINEER EQUIPMENT (GMEE)	A	12,165	11,778	11,825		11,825	U
50 MAT	CERIAL HANDLING EQUIP	A	42,554	90,260	41,430	56,875	98,305	U
51 FIR	ST DESTINATION TRANSPORTATION	А	8,305	5,850	5,301		5,301	U
GENERA	AL PROPERTY							
52 FIE	CLD MEDICAL EQUIPMENT	А	28,203	29,037	6,811		6,811	U
53 TRA	AINING DEVICES	В	127,522	115,013	14,854	157,734	172,588	U
54 CON	TAINER FAMILY	А	25,585	5,117	3,770		3,770	U

Exhibit P-1Q: FY 2010 Base and Overseas Contingency Operations (OCO) Request, as of May 5, 2009 at 14:42:06

DATE: 05 MAY 2009

Department of the Navy FY 2010/2011 President's Budget

FY 2010/2011 President's Budget Exhibit P-1 FY 2010 Base and Overseas Contingency Operations (OCO) Request

(Dollars in Thousands)

APPROPRIATION: 1109N Procurement, Marine Corps DATE: 05 MAY 2009

LINE NO ITEM NOMENCLATURE	IDENT CODE	FY 2 Base Actua Ouantity	&OCO		2009 e&OCO 4/9/09 Cost	FY 2 Ba Quantity	:010 lse Cost	FY 20 OCO Quantity		FY 2 Tot Quantity		S E C
												-
55 FAMILY OF CONSTRUCTION EQUIPMENT	А	:	121,726		143,385		37,735		35,818		73,553	U
56 FAMILY OF INTERNALLY TRANSPORTABLE VEH (ITV)	A	18	23,041	44	19,963	52	10,360			52	10,360	U
57 BRIDGE BOATS	А		56,961									U
58 RAPID DEPLOYABLE KITCHEN	A		18,929		4,185		2,159		55		2,214	U
OTHER SUPPORT												
59 ITEMS LESS THAN \$5 MILLION	A		33,763		8,707		8,792		39,055		47,847	U
TOTAL Engineer and other equipment		2,	666,108	1	,088,556		362,665		124,903		787,568	

Exhibit P-1Q: FY 2010 Base and Overseas Contingency Operations (OCO) Request, as of May 5, 2009 at 14:42:06

Evhi	hit D 40 Budget	ltom lu	otification	n Chast		Date:										
EXNI	bit P-40, Budget	item Ju	Stificatio	n Sneet					May 2009							
Appropriation / Budget Ac	•						P-1 Iten	n Nomencla	ture:							
Procurement, Marine Cor (2)	ps (1109) / Weapons	and Comba	at Vehicles				AA	V7A1 PIP								
Program Element:			Code	Other Rela	ted Program Ele	ments:										
0202100M Divisions (Mar	rine)		Α													
	Prior Years	FY2008	FY2009	FY2010	FY2010 OCO	FY2010 Total										
Proc Qty																
Gross Cost	804.4	28.6	5.5	9.1	0.0	9.1										
Less PY Adv Proc																
Plus CY Adv Proc																
Net Proc (P-1)	804.4	28.6	5.5	9.1	0.0	9.1										
Initial Spares	10.1	0.0	0.0	0.0	0.0	0.0										
Total Proc Cost	814.5	28.6	5.5	9.1	0.0	9.1										
Flyaway U/C																
Wpn Sys Proc U/C																
			2008	2009	2010	2010 OCO	2010 Total									
Active	Gross Cost		28.6	5.4	9.0	0.0	9.0									
Reserve	Gross Cost		0.0	0.1	0.1	0.0	0.1									
Total	Gross Cost		28.6	5.5	9.1	0.0	9.1									

The AAV Modification Kit Program provides life-cycle support to ensure cost-effective combat readiness for the AAV Family of Vehicles (FOV). This is accomplished through continuous review of sub-systems to maintain system supportability, safety, reduce total ownership costs, and improve fleet readine The Modification Kit Program, also known as the Mod Kit Line, primarily supports engineering change proposal work, and the fielding of the Enhanced Applique Armor Kit (EAAK).

AAV Survivability, C4I, Environment/Habitability (SCE) upgrade will sustain the AAV FOV until the EFV is fielded.

The AAVC7 Command and Control (C2) upgrade provides upgrades needed to address the current C2 capabilities gap.

2nd, 3rd, 4th, 5th echelon tool kits are used to repair the vehicle in the field.

Exhibit P-40a, Budget Iten	n Justific	ation 1	for Aggreg	jated Ite	ms		Date:			May 20	09						
Appropriation / Budget Activity								P-1	Item Nome								
Procurement, Marine Corps (1109) / Weapons and Co	ombat Vehic	les (2)							AAV7A1	PIP							
Procurement Items	Code	UOM	Prior Years	FY2008	FY2009	FY2010											
Tool Kits for AAV, 2nd, 3rd, 4th, 5th echelon	А	D	0.0	0.144	0.0	0.0											
Total			0.0	0.144	0.0	0.0											
Active			0.0	0.144	0.0	0.0											
Reserve			0.0	0.0	0.0	0.0											

				iation/ Budget Act				P-1 Line Item Nom	enclature:		W	eapon System Ty	pe:	Date:	
Exhibit P-5 Cost Anal	lysis	Pro	ocurement, Mar	ine Corps (1109) Vehicles (2)	/ Weapons	and Combat		AAV7A1 PIP						May 2009	
			Prior Yrs		FY 08			FY 09			FY 10	,	Ì	FY10 OCO	
Weapon System	Cost Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
AAV MOD LINE			57105	3930	VAR	VAR	5425	VAR	VAR	6154	VAR	VAR	0.0		
Tech/Engineering Support			5702												
Thermal Imaging Module			56298	***************************************			0	***************************************		0			0.0		
AAVC7 Upgrade			53169	24482	10	2448200	0			0	***		0.0		
AAV SCE Upgrade							0			2973	VAR	VAR	0.0		
	TOTAL		172274	28412			5425			9127			0.0		
	ACTIVE RESERVE		170552 1722				5371 54			9065 62			0.0 0.0		

	Exhibit P-5a, Budget Procureme	nt History a	nd Planning					Date:		
Agrana in time / Durdon & Anticity / Operin No.	Exhibit F-3a, Budget Frocureme	Weapon Sys			P-1 Line Item N	la la t			May 20	09
Appropriation / Budget Activity/Serial No:	9)/ Weapons and Combat Vehicles (2)	weapon sys	еш туре.		P-1 Line item N	omenciature:	AAV7A1 PIP			
Floculentent, Mainle Corps (1103	weapons and combat vehicles (2)	Contract	_				AAVIATEIE	Cnass	Date	RFP Issu
VBS Cost Elements:	Contractor and Location	Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail?	Revsn	Date
iscal Years		and Type			Delivery	Each	\$		Avail	
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FY07 Thermal Imaging Module	Raytheon, Dallas TX	FFP	MCSC	Mar-07	Jul-08	108	35975		N/A	Dec-0
FY07 Thermal Imaging Module	L3 Comm, Cincinatti, OH	FFP	MCSC	Mar-07	May-07	108			N/A	Dec-0
FY07 Thermal Imaging Module	L3 Comm, Cincinatti, OH	FFP	MCSC	Aug-07	Aug-08	918			N/A	Dec-0
FY07 AAV C7 Upgrade	SPAWAR, Charleston, SC	FFP	MCSC	Sep-07	Jan-10	63	2448200		N/A	N/A
FY08 AAV C7 Upgrade	SPAWAR, Charleston, SC	FFP	MCSC	Sep-08	Jan-11	10	2448200	Yes	N/A	N/A
										<u></u>
REMARKS:										

FY 08/09 BUDGET EXHIBIT	P-21, PRODUC	TION	SCH	EDUL	E																				Ma	ay 20	09				
Appropriation Code/CC/BA/BSA/Item							Wea	pon S	Syste	m				P-1	Item	Nom	encla	ture:													
Procurement, Marine Corps (1109) / \	Neapons and Comb	at Veh	icles (2	2)																			7A1	PIP	•						
							Р	ROD	UCT	ION	RAT	ГΕ				ROC			NT L	EAD	TIM	ES									
	Manufacturer's NA	AME / LO	CATION				М	SR	EC	ON	M	AX				AL				nitia			eorc							t of	
ITEM													to	Ос	t 1	(Oct '	1	M	g Pl	LT	N	lfg P	LT		TO	TAL		Me	asur	·e
AAV THERMAL IMAGING MODULE	RAYTHEON, DA	ALLAS T	ΓX				6	80	8	88	10	05		12			0			6									丄	Е	
AAV THERMAL IMAGING MODULE	L-3 COMMUNIC	CATIONS	S, CINC	INATTI, C	OH		6	03	8	88	10	05		12			0			6									<u> </u>	Е	
AAV THERMAL IMAGING MODULE	L-3 COMMUNIC	ATIONS	S, CINC	INATTI, C	DН		6	03	8	88	10	05		12			0			6									<u> </u>	Е	
AAV C7C2 UPGRADE	SPAWAR CHAP	RLESTO	N					2	1	0	3	80		12			0			6										Е	
AAV SCE	TBD																														
						Fiscal Year 08											Fi	scal	Year	. 09					B A						
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			S	Q	D	В	0	N	D	J	F	М	Α	М	J	J	Α	S	0	N	D	J	F	М	А	М	J	J	А	S	N C
		F Y	V	Т	Е	A	C	0	Е	A	Е	Α	Р	Α	Ü	Ü	U	Е	С	0	Е	A	Е	Α	Р	Α	Ü	Ü	U	Е	E
TEM			С	Υ	L	L	Т	V	С	N	В	R	R	Υ	N	L	G	Р	Т	V	С	N	В	R	R	Υ	N	L	G	Р	
AAV THERMAL IMAGING MODU	,	7	MC	108		108										108															0
AAV THERMAL IMAGING MODU		7	MC	108	6	102	11	20	19	10	10	18	9	5																	0
AAV THERMAL IMAGING MODU	JLE (L-3)	7	MC	918		918											60	60	70	70	80	80	80	80	80	85	85	88	<u> </u>	<u> </u>	0
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TEM		Υ	C	Y	L	L	Т	V	C	N	В	R	R	Y	N	L	G	Р	T	٧	C	N	В	R	R	Y	N	L	G	Р	E
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AAVC7C2 UPGRADE		7	N	63	1	63				8	8	6	6	6	6	6	4	4	4	3	2							\vdash	\vdash	\vdash	0
AAVC7C2 UPGRADE		8	N	63	53	10	1					J	١	٦	Ť	Ť		7				2	2	2	2	2		一	\vdash	\vdash	0
DEMARKS: Availability of C7s from (4	느	Щ	L,	L		<u> </u>	<u> </u>	Ļ	<u> </u>	L,		Ļ.		L	_	4	-	_	4	L		—	느	

REMARKS: Availability of C7s from OpForces - minimize OF deficiency by frontloading production facility and maintaining steady state of 4 per month. Starting in Nov FY10, monthly quantity drops due to final tractor availability.

	Exh	ibit P-40, Budg	jet Item .	Justificati	on Sheet			Date: May 2009		
Appropriation / Budg	aet Activity/Ser	al No:				P-1 Item Nome	enclature:	may 2000		
Procurement, Marin			d Combat	Vehicles				ARMORED VEHIC	LE (LAV) PIP	
Program Elements:		· ·				lated Program E	lements:			
0206	211M Divisions	(Marine)		Α						
	Prior Years		FY 2008	FY 2009	FY 2010	FY 2010 OCO	FY 2010 Total			
Proc Qty		1								
Gross Cost	1003.5		119.7	232.0	35.0	58.2	93.2			
Less PY Adv Proc										
Plus CY Adv Proc		1								
Net Proc (P-1)	1003.5		119.7	232.0	35.0	58.2	93.2			
Initial Spares	11.8	1	0.0	1.1	0.0	0.0	0.0			
Total Proc Cost	1015.3	1	119.7	233.1	35.0	58.2	93.2			
Flyaway U/C		1								
Wpn Sys Proc U/C										
	FY	2008 FY 2	2009	FY2010	FY2	010 OCO FY	2010 TOTAL			
Active Gross C	Cost 112	2.0 220.	.5	28.8		58.2	87.0			
Reserve Gross C	ost 7	7.7 11.8	5	6.2		0.0	6.2			
Total Gross C	Cost 119	9.7 232.	.0	35.0		58.2	93.2			

LAV MODIFICATION: Projects funded under the LAV Modification Program include numerous low-dollar, yet extremely important minor vehicle and weapon modifications, focusing on safety and obsolescence issues, support equipment and tools, and other such projects that increase LAV reliability and readiness while simultaneously reducing operations and support costs. This funding is critical to offsetting support issues generated as a result of the GWOT and the advancing age of the family of Light Armored Vehicles, respective of the extended service life through 2025, while maintaining acceptable levels of fleet readiness. The Marine Corps, PM-LAV, Sustainment/Readiness Team uses multi-disciplined integrated project teams consisting of engineering, logistical, contracting and financial personnel to manage Modification projects.

LAV SLEP Improved Thermal Sight System (ITSS): The LAV Improved Thermal Sight System will replace the current Generation I thermal sight with a significantly more capable Generation II system with greater ranges for detection, recognition and identification. The new sight will also incorporate an integrated laser range finder, fire control computer, target motion indicator and target coordinate computation. These improvements will materially enhance the survivability and lethality of the LAV-25 platform. The LAV SLEP Thermal Sight System in several technologies, both developmental and off-the-shelf, to enhance system survivability, reliability, reliability, mobility and sustainability while simultaneously reducing cost of ownership.

LAV COMMAND & CONTROL UPGRADE (LAV-C2): The LAV-C2 Upgrade Program (FY 2009 - FY2010) is designed to meet and maintain the command and control requirements of the Operational Requirements Document (ORD). LAV-C2 upgrade provides a hardware and software module for the LAV-C2 to support complex radio configurations. The upgrade seeks to integrate in the vehicle, those non-developmental hardware and software components that will ensure that the vehicles - and the appropriate LAR unit command element - have the capability to send and receive required voice and data communications to higher, adjacent and subordinate units. The module will provide isolation of critical communications functions in a self-contained module to support a mix of legacy radio and the Joint Tactical Radio System (JTRS). The modification is needed to keep the LAV-C2 a viable weapon system through the service life of the LAV Family of Vehicles.

LAV Lethality Program (FY 2007-FY2010) will upgrade the LAV 25's M242 gun and associated hardware and software necessary to enable the firing of M919 25 Armor Piercing, Fin Stabilized, Discarding Sabot (Depleted Uranium) with tracer ammunition. The LAV Lethality upgrade will provide superior lethality resulting in increased survivability LAV Lethality program will invest in technologies currently on the U.S. Army's Bradley Fighting Vehicle.

Exhibit P-40, Budget Item	Justificat	ion Sheet		Date: May 2009
Appropriation / Budget Activity/Serial No:			P-1 Item Nomenclature:	
Procurement, Marine Corps (1109) / Weapons and Combat	Vehicles ((2)	LIGHT	ARMORED VEHICLE (LAV) PIP
Program Elements:	Code:	Other Re	lated Program Elements:	
0206211M Divisions (Marine)	Α			
LAV UPGRADE/LAV SLEP-PIP: The LAV Upgrade program is LAV's since the late 1980's and the configuration has changed in Drive. Survivability upgrades have also been incorporated in an to keep the FOLAV's configuration as common as possible. The and the Ballistic Protection Upgrade Package. New survivability	n the follow Automative following	wing areas c Fire Supp modification	: GEN II suspension, Power Pack (pression System and Ballistic Prote ons are funded: GEN II suspension	engine, transmission, 2 speed T-case), and Electric Turret ction Upgrade Package. These modifications are required n, Electric Turret Drive, Automatic Fire Suppression System
LAV-RAM - The LAV RAM project is a modification identified by Tank Protection Package, Internal Floor Spall Liner and Mine Ref FY08 Supplemental funding. Funding is also included to procur include enough to procure kits for the entire fleet. This will comp	esistant See the remain	eats. This aining add-	completes the project to upgrade the	ne entire fleet of Light Armored Vehicles that began with

LAV-RAM SURVIVABILITY - The LAV radio replacement provides the LAR units entering theater with a reliable multi band communication system to replace their maintenance intensive legacy singars capability. Survivability III enhances survivability, readiness and mobility of the LAV family of vehicles. Provides essential weight reduction to offset the added weight of predecessor survivability upgrades, thereby increasing suspension system reliability and allowing the vehicles to perform in the harsh terrain. Support equipment

LAV (LAV-25): The Light Armored Vehicle (LAV-25) program is for the procurement of LAV's to replace projected reset as a result of Operation Iraqi Freedom/Operation Enduring Freedom. Replacing these vehicles will ensure the USMC Light Armored Reconnaissance (LAR) battalions have adequate numbers of LAVs for continued combat

requirements are to provide additional tools and equipment lost or destroyed in theater.

operations.

Exhibit P-40
BLI No. 203800 Item No. 2 Page 2 of 11 Budget Item Justification Sheet

Exhibit P-40a, Budget Item	Justif	icatior	n for Aggrega	ate	ed Items			Date:	May 2009	
Appropriation / Budget Activity Procurement, Marine Corps (1109) / Weapons and	d Comb	at Veh	icles (2)			P-1 Item I	LIGHT	ARMORED VE	HICLE (LAV) PIF	
Procurement Items	Code	UOM	Prior Years		FY 2008	FY 2009	FY 2010	FY 2010 OCO		
LAV LETHALITY	Α	D	0.5		0.957	0.439	0.681	0.000		
LAV SLEP/PIP (ITSS)	Α	D	184.4		1.560	0.003	0.000	0.000		
Totals			184.9		2.517	0.442	0.681	0.000		

Exhibit P-5 - Cost Analysis		curement, Marine	ctivity/Serial I Corps (1109) / Weapons ar	nd Combat		LIGHT AF	Nomenclature RMORED	•	Weapon Syst	о туро.	Date:	2009	
		Prior Yrs	Vehicles (2	P) FY 08			VEHICLE FY 09	(LAV) PIP	I	FY 10			FY 10 OCC)
	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost
AV-MODIFICATION MODIFICATION KITS	Α	1613	53807	1BL	VAR.	25525	1BL	VAR.	4102	1BL	VAR.			
TESTING		15	258	IDL	V/III.	1557	IDE	VAIX.	25	IDL	v/u.			
INSTALLATIONS		15	5268			1386			393					
SYS. ENGINEERING/PROGRAM MGT SPT		319	2322			1913			195					
ILS		15	4827			2683			314					
SUBTOTAL		1962	66482			33064			5029					
AV-C2 UPGRADE	Α													
HARDWARE			2700			14985	9	1665000	27156	16	1697250	1		
ECO						151			256					
REFURBISHMENT						340								
SYS. ENGINEERING/PROGRAM MGT SPT						734			734					
PVT/FAT						4996								
ILS						3452			876					
NEW EQUIP TRAINING						234			237					
SUBTOTAL			2700			24892			29259					
AV UPGRADE/LAV SLEP/PIP	Α													
MODIFICATION KITS		323616	18696	1BL	VAR.									
TECH/ENG DATA		5485												
INSTALLATION		36721	2032											
SYS. ENGINEERING/PROGRAM MGT SPT		5300	553											
ILS		18746	1617											
TESTING		2300	102											
SPEC PURPOSE TEST EQUIP		9710												
NEW EQUIP TRAINING		609												
SUBTOTAL		402487	23000											
AV-RAM SURVIVABILITY														
MODIFICATION KITS						130615	1 BL	VAR.						
PVT/FAT						3840								
INSTALLATIONS						20020								
ILS						4115								
RADIO EQUIPMENT (VRC-110's)												9400	304	30
SURVIVABILITY MODIFICATIONS						450500						3000	1 BL	V
SUBTOTAL						158590						12400		
AV (LAV-25)	Α													
HARDWARE		24300	25000	11	2272727	15000	5	3000000				45829	17	2695
SUBTOTAL		24300	25000			15000						45829		
TOTAL		428749	117182			231546			34288			58229		
ACTIVE		250518	109482			220011			28116			58229		
RESERVE		178231	7700			11535			6172					

	Exhibit P-5a - Budget Procure	ment His	tory and Planning						Date:	
Appropriation / Budget Activity/Serial No:		Weapon Sy	ntom Type:		P-1 Line Ite	m Nomencl	ature:		May 20	09
Procurement, Marine Corps (1109) / Weapons	and Combat Vehicles (2)	weapon sy	ыет туре.				/EHICLE (LAV)	PIP		
WBS Cost Elements:		Contract		Award	Date of	QTY		Specs	Date	RFP
Fiscal Years	Contractor and Location	Method & Type	Location of PCO	Date	First Delivery	Each	Unit Cost \$	Avail?	Revsn Avail	Issue Date
FY08										
LAV MODIFICATION	Various	FFP	TACOM, Warren, MI	VAR.	VAR.	1 BL	VAR.	NO	N/A	N/A
LAV (LAV-25)	GDLS, Sterling Heights, MI	FFP	TACOM, Warren, MI	Jul-08	Jul-09	11	2272727	NO	N/A	N/A
FY09										
LAV MODIFICATION	Various	FFP	TACOM, Warren, MI	VAR.	VAR.	1 BL	VAR.	NO	N/A	N/A
LAV C2 UPGRADE	LOCKHEED MARTIN, OWEGO, NY	FFP	TACOM, Warren, MI	Aug-09	May-10	9	1665000	NO	N/A	N/A
LAV (LAV-25)	GDLS, Sterling Heights, MI	FFP	TACOM, Warren, MI	Jun-09	Jun-10	5	3000000	NO	N/A	N/A
FY10										
LAV MODIFICATION	Various	FFP	TACOM, Warren, MI	VAR.	VAR.	1 BL	VAR.	NO	N/A	N/A
LAV C2 UPGRADE	LOCKHEED MARTIN, OWEGO, NY	FFP	TACOM, Warren, MI	Mar-10	Sep-10	16	1697250	NO	N/A	N/A
LAV-25 Projected Reset	GDLS. Sterling Heights, MI	FFP	TACOM, Warren, MI	Jun-10	Dec-11	17	2695824	NO	N/A	N/A
LAV-RAM SURVIVABILITY	HARRIS CORP, Melbourne, FL	FFP	SYSCOM, Quantico, VA	Feb-10	Jun-10	304	30921	NO	N/A	N/A
LAV-RAM SURVIVABILITY (Radios)	Various	FFP	Various	Var.	Var.	1 BL	Var.	NO	N/A	N/A

EXHIBIT P-3A, INDIVIDUAL MODIFICATION	Date:	May 2009
MODIFICATION TITLE: LAV-C2 UPGRADE		
MODELS OF SYSTEMS AFFECTED: LAV Command & Control		
DESCRIPTION / JUSTIFICATION:		
The LAV-C2 Upgrade Program is designed to meet and maintain the command and control requirements of the Operational Re upgrade will provide a hardware and software module for the LAV-C2 to support complex radio configurations. The upgrade se developmental hardware and software components that will ensure that the vehicles - and the appropriate LAR unit command required voice and data communications to higher, adjacent and subordinate units. The module will provide isolation of critical module to support a mix of legacy radio and the Joint Tactical Radio System (JTRS). The modification will ensure that the LAV through the service life of the LAV Family of Vehicles.	eeks to integrate in the ve element - have the capab communications function	hicle, those non- ility to send and receive s in a self-contained

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

MS B 2Q/05 MS C 4Q/09 IOC 4Q/10

Inputs

Outputs

Installation Scho	e <u>dule:</u>																				
	Pr Yr						FY 20	08			FY 20	009			FY:	2010			FY 20	11	
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs																4	6	6	6	3	
Outputs																4	6	6	6	3	
								1				I						T . I			T - 1 - 1 -
		_												Т				10			Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Co	mplete			

METHOD OF IMPLEMENTATION: CONTRACTOR ADMINISTRATIVE LEADTIME: 10 Months PRODUCTION LEADTIME: 9 Months

Contract Dates: AUG 09, MAR 10 Delivery Dates: May 10 - Dec 11

> Item No. 2 Page 6 of 11 Bli No. 203800 Individual Modification

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				EXHII	BIT P-	·3A, INDI	VIDL	Jal Moi	DIFICA	TION						DATE	•	May	/ 2009)
MODIFICATION TITLE (Cont):	LAV-C2 U	PGR	ADE																
FINANCIAL PLAN: (\$ in Millio	ns)																			
	PRIC	R YEARS	F١	Y 2008	FY	′ 2009	FY	′ 2010	FY 20	10 OCO	FY	2010 Total					1	С	Т	OTAL
	Qty	\$	Qty		Qty		Qty		Qty	\$	Qty	\$	Qty	\$ Qty	\$ Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT																				
Kit Quantity Inst Kits, Nonrecurring					9	14.985	16	27.156			16	27.156							25	42.14 ⁻
Equipment, Nonrecurring																				
Engineering Change Order						0.151		0.256				0.256								0.407
Other						9.756		1.847				1.847								11.60
Installation of Hardware FY 2003 Eqpt kits FY 2004 Eqpt kits FY 2005 Eqpt kits FY 2006 Eqpt kits FY 2007 Eqpt kits FY 2008 Eqpt kits FY 2009 Eqpt kits FY 2009 Eqpt kits (FY(TC) Eqpt (xx kits)																				
Installment Cost																				

Note: Other includes System Engineering/Program Management Support, Integrated Logistics Support, and New Equipment Training.

24.892

29.259

83.410

Total Procurement Cost

29.259

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ITEM		F Y	S V C	Q T Y	D E L	B A L	O C T	N O V	D E C	A N	E B	M A R	A P R	M A Y	N N	U L	U G	S E P	O C T	N O V	D E C	A N	F E B	M A R	A P R	M A Y	N D	J J	A U G	S E P	N C E
LAV RAM SURVIVABILIT	Y (RADIOS)	10	МС	304	0	304					Α				50	50	50	50	50	50	4								\square	$\vdash \vdash$	0
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	Exh	ibit P-40, B	udget Item	Justification	n Sheet			Date:	 Ma	ay 2009	
Appropriation / Budge	et Activity/Serial	No:				P-1 Item Nom	nenclature:			ty 2000	
Procurement, Marine	•		Combat Veh	icles (2)	ļ		IMPF	ROVED RECO	OVERY VEHIC	CLE (IRV)	
Program Elements:				Code:	Other Relate	d Program Ele	ments:				
020	0611M Division ((Marine)		<u> </u>	<u> </u>			•			
	Prior Years	FY 2008	FY 2009	FY 2010	FY2010 OCO	FY 2010 Total					
Proc Qty	1	_ · · <u></u>	1 . 2005	1	1 222			†		+	†
Gross Cost	0.0	7.6	0.0	0.0	0.0	0.0					
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc (P-1)	0.0	7.6	0.0	0.0	0.0	0.0					
Initial Spares											
Total Proc Cost	0.0	7.6	0.0	0.0	0.0	0.0					
Flyaway U/C				<u> </u>			_				
Wpn Sys Proc U/C				<u> </u>							<u> </u>
IMPROVED RECOV	ERY VEHICLE	(IRV):	· <u>—</u> ——								
The M88A2 Hercules upgraded engine, tra 70 tons.	•	-	•	•	•	•					
Funding will procure manual life cycle manual buy end items.			` ,	•		•	•				

Exhibit P-5, Cost Analysis	Procure	riation/ Budget Act ement, Marine Cor	os (1109)/Weapoi		at Vehicles (2)			n Nomenclated Recovery		Weapon Sys		Date:	May 20	09
Weapon System Cost Elements	D CD	PRIOR YRS TotalCost	TotalCost	FY 2008 Qty	UnitCost	TotalCost	FY 2009 Qty	UnitCost	TotalCost	FY 2010 Qty	UnitCost	TotalCost	FY 2010 Qty	OCO UnitCost
	0.5	\$000	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
Recovery Vehicle, Full Track M8£			7600	3	2533333									
TOTAL ACTIVE RESERVE			7600 7600											

Ex	khibit P-5a, Budget Procuremen	t History a	nd Planning					Date:	May 20	ing
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) //			System Type:		P-1 Line I	tem Nome	nclature: proved Recover	-		
WBS Cost Elements:	Contractor and Location	Contract Method and	Location of PCO	Award	Date of First	QTY	Unit Cost	Specs	Date Revsn	RFP Issue
Fiscal Years		Туре		Date	Delivery	Each	\$	Avail?	Avail	Date
FY08										
Recovery Vehicle, Full Track M88	BAE Systems, York, PA	SS-FFP	TACOM, Warren MI	Dec-07	Dec-08	3	2533333	Υ	Apr-06	Sep-07
REMARKS:										

	FY 08/09 BU	DGE	T EXI	HIBIT I	P-21, P	RODU	CTIC	ON S	СН	EDU	JLE									Date	:				Ma	y 200)9				
Appropriation Code/CC/BA/BSA/Item (Procurement, Marine Corps (1109) /W		bat Ve	hicles ((2)			Wea	pon :	Syste	em				P-1	Item	Nom	encla	ture:		lm	prove	ed Re	ecove	erv V							
<u> </u>	·			, ,			F	PROD	UCT	ION	RAT	E			F	PRO	CURE	MEN	NT LE					,							
TEM	Manufacturer	's Nam	ne and	Location	n		M	SR	EC	ON	M	AX		T Prid		ALT	After 1	Oct		nitial g PL			eord fg Pl			TO	TAL		Unit Mea	of sure	
Recovery Vehicle, Full Track M88	BAE Systems	, York,	PA				:	2	4	4	1	0					2			12						1	4			E	
						ī				Fi	scal	Voar	U8										Fi	scal	Voar	nα			<u></u>		В
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		F Y	S V	Q T	D E	B A	0 C	N O	DE	J A	F	M A	A P	M A	J	J U	A U	SE	0 C	N 0	D E	J A	F	M A	A P	M A	J U :	J	A U	SE	N C E
TEM NALL E HE LANCO		00	C	Y	L	L	Т	V	С	N	В	R	R	Υ	N	L	G	Р	Т	V	С	N	В	R	R	Υ	N	L	G	Р	Ļ
Recovery Vehicle, Full Track M88		80	MC	3	0	3			Α												1	1	1					世			0
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Ex	hibit P-40, Bu	dget Item .	Justification	Sheet		Date:		May	2009		
Appropriation / Budget	Activity/Serial No:					P-1 Item Nom	enclature:				
Procuren	nent, Marine Corps	s (1109) / Wea	apons and Coml	bat Vehicles (2)			M1A1 Firepow	er Enhanceme	nt	
Program Elements:		Code:	Other Related	Program Elem	nents						
0206211M Divisions (N	/larine)	Α									
	Prior Years	FY 2008	FY 2009	FY 2010	FY2010 OCO	FY 2010 Total					
Proc Qty	314										
Gross Cost	94.0	14.7	14.7	0.0	0.0	0.0					
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc (P-1)	94.0	14.7	14.7	0.0	0.0	0.0					
Initial Spares	4.4	0.0	0.0	0.0	0.0	0.0					
Total Proc Cost	98.4	14.7	14.7	0.0	0.0	0.0					
Flyaway U/C											
Wpn Sys Proc U/C	.3										

M1A1 Firepower Enhancement Program (FEP): The FEP system is a suite of upgrades for the M1A1 tank. It will include a second-generation thermal sight, a north finding/far target location capability, an improved eye safe laser range finder, and an improved loaders weapon station. The systems will increase the M1A1 tank crew's ability to detect, recognize, identify, engage and destroy targets. The system enhances the current firepower of the loader's weapon station by providing a secure remotely operated (under armor) platform. The survivability of the loader is greatly enhanced since he will no longer have to expose himself to enemy fire in order to operate his machine gun. It also increases the accuracy of the weapon and the area effectively covered by its fire. It will integrate current/planned situational awareness systems into the M1A1.

Tank Safety Mods/Tools and Test Equipment: Procures and fields the necessary test stands and test support equipment resultant from the fielding of the FEP suite of upgrades to the M1A1 Tank.

Tool Set, M1A1 Tank, 2D ECH: Procure and fields the necessary test support equipment resultant from the fielding of the FEP North Finding Module (NFM) Embedded Global Position Sensor (GPS) Enhancement upgrade to the M1A1 Tank.

Exhibit P-5 Cost Analysis		riation/ Budget A					P-1 Line Iter			Weapon Sys	stem Type:			Date:
Exhibit 1-0 00st Analysis	Procu	rement, Marine (Corps (1109)		d Combat V	ehicles (2)		epower Enh	ancement					y 2009
Weapon System	ID CD	Prior Yrs		FY 2008			FY 2009			FY 2010	1		Y 2010 O	
Cost Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	TotalCost \$000
M1A1 FEP System		70367	12588	47	267829	11978	42	285190						
System Engineering Support		4246	1203			1706								
Government Engineering Services		1419	383			492								
Program Management Support		3319	500			487								
Installation of FEP system		795												
Integrated Logistics Support (Training Equip, Common Support Equip, and Peculiar Support Equip)		3261												
Contractor Logistics Support (CLS) (Repair Facility)		5068												
Retrofit Kits		3660												
TOTAL ACTIVE		92135 92135	14674 14674			14663 14663								
RESERVE														

Ex	hibit P-5a, Budget Prod							Date:	May 20	009
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Weapons	and Combat Vehicles (2)	Weapon S	System Type:		P-1 Line	Item Nome M1A1	nclature: Firepower Enl	hancem	ient	
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method & Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issue Date
FY08	Raytheon, McKinney, TX	FFP	MARCORSYSCOM, Quantico	Oct-07	Nov-08	47	267829	N/A	N/A	N/A
FY09	Raytheon, McKinney, TX	FFP	MARCORSYSCOM, Quantico	Oct-08	Nov-09	42	285190	N/A	N/A	N/A
REMARKS:										

appropriation Code/CC/BA/BSA/Item Co	BUDGET EXHIBIT P-21, PRODUC em Control No.																								IVI	y 200	J9				
rocurement, Marine Corps (1109) / Wea		at Vehi	icles (2	2)			Wea	pon S	Syste	m				P-1	Item	Nome	enclat	ure:		M1/	\1 Fir	epov	ver E	nhan	ceme	ent					
							F	PROD	UCT	ION	RATE	Ē		•		PRO	CURE	MEI	NT LE	ADT	IMES	3									
ГЕМ	Manufacturer's	NAM	E / LO	CATION	I		MS	SR	EC	ON	MA	ΑX		T Prid		ALT	After	Oct		nitial fg PL			leord Ifg Pl			то	TAL		Unit Mea		
11A1 Firepower Enhancement	Raytheon, Mc	Kinne	y, TX				1	1	1:	3	3	0								13			1			1	3			Е	
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M1A1 FIREPOWER ENHANCEMEN M1A1 FIREPOWER ENHANCEMEN		08	MC MC	47 42		47 42	Α												Α	4	4	4	4	4	4	4	4	4	4	4	3 42
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11A1 FIREPOWER ENHANCEMEN	NTS	09	МС	42		42		10	12	10	10																				0
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REMARKS:						<u> </u>																				<u> </u>		Щ	Щ		Щ

	Exhibit F	²-40, Budg€	et Item Just	tification Sh	eet		Date:		M	lay 2009		
Appropriation / Budget A	ctivity/Serial No:				P-1 Item Nomer	nclature:						
Procurement, Marine Co	rps (1109) / Wea	pons and Com	ıbat Vehicles (2	2)			EXPEDI	TIONARY FIRI	SUPPORT SY	STEM (EFSS)		
Program Elements: 0206211M	Divisions (Marine	e)	Code: A	Other Related	Program Elemen	nts:						
	Prior Years	FY 2008	FY 2009	FY 2010	FY 2010 OCO	FY 2010 Total						
Proc Qty	12		20	20	0	20						
Gross Cost	22.1	3.9	22.0	19.6	0.0	19.6						
Less PY Adv Proc		ı										
Plus CY Adv Proc		<u> </u>										
Net Proc (P-1)	22.1	3.9	22.0	19.6	0.0	19.6						
Initial Spares	0.0	0.7	0.0	0.0	0.0	0.0						
Total Proc Cost	22.1	4.6	22.0	19.6	0.0	19.6						
Flyaway U/C												
Wpn Sys Proc U/C												
Expeditionary Fire indirect fire system (prime mover), Amr EFSS supports irre The EFSS will use commercial/govern	designed to s munition, Amr egular warfare an evolutiona	support the valuation Supand distributers	vertical assa pply Vehicle uted operation on strategy w	ault element on and Technions. With a spiral/ir	of a Ship-To-C ical Fire Direct ncremental de	Objective Man tion and Cont	euver (ST rol equipm	OM) force. ent necessa	The EFSS is ary for orientin	defined as a L ng weapons to	auncher, Mo an azimuth	obility Platform of fire.

Exhibit P-5 - Cost Analysis		propriation/ Bud ement, Marine and Comb		9) / Weapons 2)		P-1 Line Item I EXPEDITION SUPPORT	NARY FIRE):	Weapon Sy	ystem Type:		Date:	May 2009	
Weapon System		Prior Yrs		FY 08			FY 09			FY 10			FY10 OCO	
Cost Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
EFSS		11954				19600	20	980000	18500	20	925000			
First Article Test / Lot Acceptance Test Integrated Logistics Support (ILS) Factory training Support Equipment Contractor Consulting Services Special Purpose Test Equipment Special Purpose Training Devices Armoring Production Support LRIP refurbishment Mortar Upgrade/Test Mortar Spares		130 1166 200 210 145 68 205 8000	650 350 295			2437			1091					
TOTAL ACTIVE RESERVE		22078 22078				22037 22037			19591 19591					

Notes: Table reflects corrected procurement quantities.

	Exhibit P-5a, Budget Procu					Date:				
									May 20	09
Appropriation / Budget Activity/Serial No	09) / Weapons and Combat Vehicles (2)	Weapon Sys	stem Type:			tem Nome		ODT CV	CTEM	EECC)
· ` `	ye) / weapons and Compat vehicles (2)	Contract		ı	Date of	DITIONAR	Y FIRE SUPPO	1	Date	
WBS Cost Elements:	Contractor and Location	Award Date	First	QTY Each	Unit Cost \$	Specs Avail?	Revsn	RFP Issue Date		
Fiscal Years		Type		Date	Delivery			Avaii:	Avail	Date
EFSS										
FY09	General Dynamics, St. Petersburg, FL	FFP	MARCORSYSCOM	May-09		20			No	Mar-04
FY10	General Dynamics, St. Petersburg, FL	FFP	MARCORSYSCOM	Dec-09	Dec-10	20	925000	Yes	No	Mar-04
REMARKS:	<u> </u>		:		!	!				<u> </u>
KEMAKKO.										
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I	E	ION SC	HED	DUL	E											Date	:				Ma	y 200	09								
	BA/BSA/Item Control No. orps (1109) / Weapons and Co	mbat Ve	hicles	(2)			Wea	pon S	Syste	em				P-1	Item		enclat XPEI		ION/	٩RY	′ FIF	RE S	SUP	POI				л (E	FSS	3)	
											RA	ГΕ			PF	ROC	UREI	MEN	NT LE	EAD	TIMI	ES									
ITEM	Manufacture	er's NAM	ME / LC	CATIO	N		MS	SR	EC	ON	M	AX		Γ Prid Oct 1		ALT	After 1	Oct		nitial g PL			eord Ifg Pl			то	TAL		Unit Mea	of sure)
EFSS	General D	ynamic	s, St. F	Petersb	urg, FL		_	1	4	4	8	3		3			3			2			1				5		上	mor	nth
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EFSS		9	МС	20		20							6			6		8										T	\vdash	一	0
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	Exhibit	P-40, Budget Item	Justificatio	on Sheet			Date: May 2009
Appropriation / Budget A	Activity/Serial No:				P-1 Item Nome	enclature:	
Procurement, Marine Co	orps (1109) / Weapons	and Combat Vehicles (2))			155	5MM LIGHTWEIGHT TOWED HOWITZER (LW-155)
Program Elements:			Code:	Other Related	Program Eleme	ents:	
020	06211M Divisions (Mar	ine)	В				
	Prior Years	FY 2008	FY 2009	FY 2010	FY 2010 OCO	FY2010 TOTAL	
Proc Qty	309	100	24	0	18	18	
Gross Cost	673.4	237.7	71.5	7.4	54.0	61.4	
Less PY Adv Proc	20.6	2.2	0.0	0.0	0.0	0.0	
Plus CY Adv Proc	22.8	0.0	0.0	0.0	0.0	0.0	
Net Proc (P-1)	675.6	235.5	71.5	7.4	54.0	61.4	
Initial Spares	4.1	2.2	5.2	2.9	0.0	2.9	
Total Proc Cost	679.7	237.7	76.7	10.3	54.0	64.3	
Flyaway U/C							
Wpn Sys Proc U/C	2.2	2.4	3.0		3.0	3.4	

The Lightweight 155mm Howitzer (LW155), also known as the M777A2, provides direct, reinforcing, and general support fires to maneuver forces. It replaces all howitzers in all missions in the USMC and replaces the M198 howitzer as the general support artillery for light forces in the Army. The LW155 fires unassisted projectiles to a range of 15 miles and assisted projectiles to 19 miles, but the addition of the digital fire control system enables the weapon to program and fire the improved Excalibur precision-guided munition to ranges in excess of 25 miles with better than 10-meter Circular Error Probable (CEP) accuracy.

The LW155 is the first ground combat system whose major structures are made of high strength titanium alloy and the system makes extensive use of hydraulics to operate the breech, load tray, recoil and wheel arms. The combination of titanium structures and the use of hydraulic systems resulted in a significant weight savings over the M198 system (~7000 lbs.). Compared to the M198, the LW155 emplaces three-times faster and displaces four-times faster. It traverses 32 percent more terrain worldwide and is 70 percent more survivable than the M198.

The LW155 was first introduced into the Marine Corps in April 2005 and since then 10th, 11th, 12th and 14th Marines and the schoolhouses have been fielded. The Army has been fielding the system to its Stryker Brigades and Fires Brigades. The LW155 is currently in OEF and OIF with both Services.

FY09-10 funding supports Towed Artillery Digitization (TAD) digital fire control system hardware refresh/upgrades.

Exhibit P-5 cost Analysis			t Activity/Seria Corps (1109)	/ Weapons an	d Combat Veh			n Nomenclatui GHTWEIGHT VITZER (LW-	TOWED		ystem Type:	Date:	May 2009	9
Weapon System		PYs		FY 2008			FY 2009			FY 2010			FY 2010 O	CO
Cost Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
AE Lightweight 155MM		475204	192094	100	1920940	56400	24	2350000				42300	18	2350000
VVA Cannon		62585	20500	100	205000	6000	24	250000				4500	18	250000
rimer Feed Mechanism		7428	1800	100	18000	480	24	20000				360	18	20000
Optical Fire Control		8360	4000	100	40000	1056	24	44000				792	18	44000
asic Initial Issue		7710	2923			644						430		
systems Engineering/Program Mgt		25001	6500			3824						3218		
est		23221	3708			789						600		
ielding		15000	6177			2300						1800		
AD Refresh/Upgrades									7420					
TOTAL ACTIVE RESERVE	:	675611 675611	237702 237702			71493 71493			7420 7420			54000 54000		

	Exhibit P-5a, Budget Procure	ement Hist	ory and Planning					Date:		
	Exhibit 1 ou, Budget 1 four								May 200	9
Appropriation / Budget Activity/Serial No	2) ////	Weapon Sy	rstem Type:			tem Nomer			7FD /LW	455\
Procurement, Marine Corps (110)	9) / Weapons and Combat Vehicles (2)			1		W LIGHT W	EIGHT TOWE			
WBS Cost Elements:	Contractor and Location	Contract Method &	Location of PCO	Award	Date of First	QTY	Unit Cost \$	Specs Avail?	Date Revsn	RFP Issue
Fiscal Years	Contractor and Location	Type		Date	Delivery	Each	Offic Cost \$	\$	Avail	Date
GFE-Watervliet Cannon	Watervliet Arsenal									
FY 2008				Jan-08	Mar-09	100	205000			
FY 2009				Jun-09	Jun-11	24	250000			
FY 2010				Dec-09	Dec-11	18	250000			
GFE - Primer Feed Mechanism	Triump Structures Connecticut, Hartford, CN	MYP/FFP	Picatinny Arsenal, NJ							
FY 2008				Nov-07	Mar-09	100	18000			
FY 2009				Jun-09	Jun-11	24	20000			
FY 2010				Dec-09	Dec-11	18	20000			
GFE - Optical Fire Control	Seiler, St. Louis, MO	MYP/FFP	Picatinny Arsenal, NJ							
FY 2008				Nov-07	Mar-09	100	40000			
FY 2009				Jun-09	Jun-11	24	44000			
FY 2010				Dec-09	Dec-11	18	44000			
Lightweight 155MM Howitzer	BAE SYSTEMS	MYP/FFP	Picatinny Arsenal, NJ							
FY 2008				Nov-07	Oct-08	100	1920940			
FY 2009				Jun-09	Jun-11	24	2350000			
FY 2010				Dec-09	Dec-11	18	2350000			
Retrofitted TAD	BAE SYSTEMS	MYP/FFP	Picatinny Arsenal, NJ							
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EXHIBIT P-21, PRODU	CTION SCHEDULE																			Date	:				Ма	y 200	_ _ 09				
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	Exhi	bit P-40, Bւ	ıdget Item J	ustification	n Sheet			Date:		May 2009		
Appropriation / Budget A	Activity/Serial No:					P-1 Item Nome	nclature:			,		
Procurement, Marine Co	orps (1109) / Weapo	ons and Comb	at Vehicles (2)					High Mobility A	rtillery Rocket S	System (HIMAR:	S)	
Program Elements for C 0	Code B Items: 0502511M Divisions	(MCR)		Code: B	Other Related	Program Eleme	nts:					
	Prior Years	FY 2008	FY 2009	FY 2010	FY 2010 OCO	FY 2010 Total						
Proc Qty												
Gross Cost	395.6	30.2	144.0	71.5	0.0	71.5						
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	395.6	30.2	144.0	71.5	0.0	71.5						
Initial Spares	12.5	1.1	0.7	1.1	0.0	1.1						
Total Proc Cost	408.1	31.3	144.6	72.6	0.0	72.6						
Flyaway U/C												
Wpn Sys Proc U/C												

HIMARS

USMC HIMARS is a C-130 transportable, wheeled, indirect fire, rocket/missile system capable of firing all rockets and missiles in the current and future Multiple Launch Rocket System Family of Munitions (MFOM). The system includes a launcher, two Re-Supply Systems (RSS) and the MFOM. An RSS consists of a Re-Supply Vehicle (Medium Tactical Vehicle Replacement (MTVR) based truck with Material Handling Equipment) and a Re-Supply Trailer. The MFOM is a family of rockets and missiles capable of attacking a variety of tactical and operational targets, providing the requisite range and lethality to support maneuver commanders.

High Mobility Artillery Rocket System (HIMARS) will provide the Fleet Marine Force with 24-hour ground-based, responsive General Support/General Support Reinforcing (GS/GSR) indirect fires which accurately engage targets at long range (60+KM) with high volumes of lethal fire under all weather conditions throughout all phases of combat operations ashore including irregular warfare and distributed operations. HIMARS is a significant improvement over currently fielded ground fire support systems. During a 24-hour period the system will be expected to conduct multiple moves and complete multiple fire missions. HIMARS will satisfy the Marine Corps requirement for an indirect fire system that is responsive, maneuverable, and capable of engaging targets at long range.

HIMARS Rockets are procured training and tactical munitions per the USMC HIMARS Total Munitions Requirement (TMR). The training munitions are the Multiple Launch Rocket System (MLRS) Reduced Range Practice Rocket (RRPR). The rocket has an inert payload section with a blunt nose for inducing reduced range for use at multiple ranges in CONUS. The tactical munitions are the Guided Multiple Launch Rocket System (GMLRS) rocket. The GMLRS integrates a guidance and control package and a new rocket motor to achieve greater range and precision accuracy resulting in reduced logistics footprint for deployed forces. GMLRS is effective against counter fire, air defense, light material, personnel targets and provides greater range and significantly enhanced accuracy.

		FY08	FY09	FY10	FY10 OCO	FY10 Tota
Active:	Gross Cost	30.0	142.6	69.8	0.0	69.8
Reserve:	Gross Cost	0.2	1.4	1.7	0.0	1.7
Total:	Gross Cost	30.2	144.0	71.5	0.0	71.5

Exhibit P-5 Cost Analysis		priation/ Budget .	-		and Combat)	(objetos (2)		m Nomenclate ty Artillery Roc		Weapon Syste	em Type:	Date:	May 2009	
Weapon System Cost	1 1000	PRIOR YRS	001p3 (1103	FY 2008	and Combat	Verlicies (2)	FY 2009	ly Artificity Roc	oket Gystern	FY 2010		F	Y 2010 O	
Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
GROUND EQUIPMENT HARDWARE HIMARS Launcher System* Engineering Services, IES Fielding	В	118832 5223 5882				26810	7	3830000						
Facilitization HIMARS Re-Supply System** Re-Supply Vehicle Re-Supply Trailer Re-Supply Sysem Armor Kits P3I Upgrades		4751 28982 7350 10835	17739			4950 108 18707	9 2	550000 54000	2726					
ROCKET MUNITIONS HARDWARE M28A2 Reduced Range Practice Rocket M30 Guided Multiple Launch Rocket System M31 Guided Multiple Launch Rocket System Receipt, Storage, Segregation, Inspection M68A2 Training Pods		3775 62916 116755 12 400	900	30	30000	2940 80286	98 136	666000	3366 59010	110 98	636000			
LOGISTICS Contractor Logistics Support New Equipment Training Team (NETT) Peculiar Support Equipment Integrated Logistics Support		4236 3100 3438 7433	4272 700 267 633			2718 700 329 650			470 510					
PROCUREMENT SUPPORT Production Engineering (Launcher) Government Testing (Launcher) Government Testing (GMLRS) Multiple Launch Rocket System (MLRS) PMO USMC HIMARS PMO Contractor Consulting Services		3629 2647 450 650 2945 1398	400 260 2493 2500			400 265 2604 2500			400 270 2700 2024					
TOTAL ACTIVE* RESERVE*		395639 198764 196875	30164 29955 209			143967 142540 1427			71476 69762 1714					

^{*} The USMC HIMARS Launcher System unit cost includes cost of the Launcher, Launcher Carrier, Carrier Armor, Carrier Radio Sets.

^{**} Increased the Re-Supply Vehicle Quantity from 2 to 9 due to the addition of 7 RSVs for Depot Maintenance Float Allowance. Pulled all Re-Supply Systems into FY09 to minimize costs associated with a break in the production line.

	Exhibit P-5a, Budget Procurer	ment Histo	ry and Planning					Date:	May 200	0
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) /	Weapons and Combat Vehicles (2)	Weapon S	System Type:		P-1 Line I Hi		enclature: y Artillery R	ocket Sys		
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method & Type		Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issue Date
HIMARS Launchers System*										
FY09	Lockheed-Martin, Dallas TX	SS-FFP	Huntsville, AL	Dec-08	Feb-11	7	3830000	Yes		
HIMARS Re-Supply System (RSS) **										
FY09 Re-Supply Vehicles	Oshkosh Truck, Oshkosh, WI		Quantico, VA	Mar-09	Nov-09	9		Yes		
Re-Supply Trailers Reduced Range Practice Rockets ***	Oshkosh Truck, Oshkosh, WI	SS-FFP	Quantico, VA	Mar-09	Nov-09	2	54000	Yes		
FY08 M28A2 FY09 M28A2 FY10 M28A2	Lockheed Martin, Dallas TX Lockheed Martin, Dallas TX Lockheed Martin, Dallas TX	SS-FFP SS-FFP	Huntsville, AL Huntsville, AL Huntsville, AL	Dec-08 Dec-08 Dec-09	Mar-10 Mar-10 Nov-10	30 98 110	30000	Yes Yes Yes		
Tactical Munitions Systems (GMLRS) FY09 M31 GMLRS FY09 M31 GMLRS FY10 M31 GMLRS	Lockheed Martin, Dallas TX Lockheed Martin, Dallas TX Lockheed Martin, Dallas TX	SS-FFP SS-FFP SS-FFP	Huntsville, AL Huntsville, AL Huntsville, AL	Dec-08 Jul-09 Dec-09	Aug-10 Nov-10 Feb-11	77 59 98	590340	Yes Yes Yes		

REMARK

^{*} The USMC HIMARS Launcher System unit cost includes cost of the Launcher, Launcher Carrier, Carrier Armor, Carrier Radio Sets.

^{**} Increased the Re-Supply Vehicle Quantity from 2 to 9 due to the addition of 7 RSVs for Depot Maintenance Float Allowance. Pulled all Re-Supply Systems into FY09 to minimize costs associated with a break in the production line.

^{***} FY08 RRPR were contracted in FY09.

	FY 09/10 BU	DGET	EXHI	BIT P-2	21, PR	ODUC	ΓΙΟΝ	I SC	HEI	DUL	LE									Date	e: 				Ма	y 20	09				
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REMARKS: The fluctuations in the Marine Corps schedule above is due to the fact that the Army and FMS order quantities are not included in this exhibit. This is also the reason why the scheduled quantities are below the Economic order quantity.

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Remarks: Prior year quantities were procured under BLI 205000 (launchers) and BLI 304001(GMLRS). System and Rockets are a joint procurement with the US Army. The fluctuations in the Marine Corps HIMARS schedule above is due to the fact that the Army and FMS order quantities are not included in this exhibit. This is also the reason why the scheduled quantities are below the Economic order quantity.

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M31 GMLRS M31 GMLRS		2009	MC	77		77											59	10		00								\vdash			0
M31 GMLRS		2009 2010	MC MC	59 98		59 98			Α											30	29		16	4	17	12	10	12	12	15	0
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REMARKS: Rockets are a joint p	rocurement with t	he US A	rmy.	he fluc	tuations	in the I	Marin	e Co	orps	GMI	LRS	sche	edule	abo	ove i	s du	e to	the fa	act th	nat tl	he A	rmy	and	FMS	S orc	ler q	uanti	ties	are r	not ir	ncluded

	Exhibit P-	40, Budget Iten	n Justifica	tion Sheet			Date:		May 2009		
Appropriation / Budge	et Activity/Serial No:				P-1 Item Nom	enclature:			•		
Procurement, Marine	Corps (1109) / Weap	ons and Tracked	Combat Vel	nicles / 02		Wea	pons and Com	nbat Vehicl	es Under \$5l	M	
Program Elements:			Code:	Other Relat	ed Program El	ements:					
02062	211M Divisions (Marin	e)	Α								
	Prior Years	FY 2008	FY 2009	FY 2010	FY 2010 OCO	FY 2010 Total					
Proc Qty											
Gross Cost	329.9	66.2	31.8	25.9	3.4	29.3					
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc (P-1)	329.9	66.2	31.8	25.9	3.4	29.3					
Initial Spares	0.6	0.0	0.0	0.0	0.0	0.0					
Total Proc Cost	330.5	66.2	31.8	25.9	3.4	29.3					
Flyaway U/C											
Wpn Sys Proc U/C											

This is a roll-up line that contains multiple Weapons and Tracked Combat Vehicle items. The funds are used to enhance the existing kits within the USMC inventory with improved, state-of-the-art electronics and tools for units that have been added/changed due to Table of Organizational (TOO) changes and Table of Equipment (TOE) changes. Funds also support the ongoing changes to the various stock lists prescribing those components of sets of test equipment and tools. The funds included in this budget line support procurement of the following items:

Company and Battalion Mortars - Provides responsive, all-weather, organic, indirect fire support to the company and battalion commanders of the Ground Combat Element in support of offensive and defensive operations and maneuver.

Direct Support Electronic Systems Test Sets - Provides funding to replenish components and replace assemblies that have been rendered non mission capable, as well as increase quantities necessary to support Overseas Contingency Operations (OCO).

Infantry Automatic Rifle (IAR) - A magazine-fed, 5.56mm weapon that increases the automatic rifleman's maneuverability and displacement speed, allowing him to keep pace with the rest of the fire team. This program responds to a Universal Needs Statement (UNS) submitted in November 2001 that identified the need for an automatic rifle to replace the Squad Automatic Weapon (SAW) within the infantry. The IAR will be designed for optimal operation by a single Marine and possess increased accuracy and reliability over the M249 SAW.

Exhibit P-40, Budget Item	Justificat	ion Sheet		Date: May 2009
Appropriation / Budget Activity/Serial No:			P-1 Item Nomenclature:	·
Procurement, Marine Corps (1109) / Weapons and Tracked (Combat Veh	icles / 02	Weap	ons and Combat Vehicles Under \$5M
Program Elements:	Code:	Other Relat	ed Program Elements:	
0206211M Divisions (Marine)	Α			

Infantry Weapons Modifications - A roll-up program for supporting the enhancement of small arms equipment/systems. These efforts also address emerging requirements and provide support for investigating safety issues.

Infantry Weapons Readiness - Funds procurement and sustainment of Infantry Weapons Gauges for all IWS systems, Universal Weapons racks for all USMC armories in order to store weapons, and associated optics and modifications necessary for the Family of Heavy Machineguns to include Thermal Weapon Sight Brackets for the MK19 and M2 Heavy Machineguns and Hydraulic buffer and hand guard modifications to the medium machine gun.

M2 Machine Gun 50 Cal - The heavy machine gun of the Marine Corps. It is automatic, belt-fed, recoil operated, air-cooled, crew-operated and crew transportable with limited amounts of ammunition over short distances with a back plate with spade grips, trigger, and bolt latch release. The gun is equipped with a leaf-type rear sight, flash suppressor and a spare barrel assembly. A disintegrating metallic link-belt is used to feed the ammunition into the weapon.

Multi Shot Grenade Launcher - Additive weapon system to the USMC arsenal to provide a semi-automatic, revolving action, shoulder fired 400 mm grenade launcher capable of firing six rounds in three seconds to support Infantry Squads and will be fielded to support convoy ops at the Division, Regimental, and Battalion level.

7.62mm Machine Gun - The M240 is the medium machine gun of the Marine Corps. It is an automatic, 7.62mm, belt fed, gas operated, air cooled, crew-served, fixed head space weapon.

M249 Squad Automatic Weapon (SAW) - A belt-fed, fully automatic machine gun that is fielded in the USMC infantry fire team. It is a true light machine gun, possessing the firepower and durability of a traditional machine gun, and is still light enough to be effectively carried by one Marine in an assault or on a patrol. The SAW was first fielded in the fire team in 1985 and is manufactured by Fabrique Nationale.

Principal End item (PEI) Reprocurement - Procures various Infantry Weapons for fielding to Marine Corps Special Operations Command (MARSOC) units and other items which have completed their initial inventory procurement and have no active procurement program for a replacement system, but are still essential to conduct the Marine Corps mission.

	n Justification Sheet	Date: May 2009
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Weapons and Tracked		1 Item Nomenclature: Weapons and Combat Vehicles Under \$5M
Program Elements: 0206211M Divisions (Marine)	Code: Other Related A	Program Elements:
Rifle Team Equipment - These items are requi in competitive shooting matches.	red to support the Mari	ne Corps shooting teams authorized to compete with other Services
Scout Sniper Capability Sets - A suite that incall the associated ancillary equipment required to	0 0 .	cision rifle capability, a semi-automatic precision rifle capability and cout sniper mission essential tasks.
Fielding Support for the Combine Support Funct	ion Module, and the fol	the M1A1 tank and associated supporting platforms and Material lowing items: Tool Kit, TV, IM, 3d ECH FM60A1; Tool Set, M1A1 int Kit; Tool set, M1A1 Tank, 3D ECH, and Test Set, Simplified Test
Tool Sets - Tool Sets are comprised of special tand replace parts on specific weapon systems, i		by Organizational Level maintenance personnel to inspect, repair e Gun, and MK 19 Machine Gun.
		n, 7.62mm sniper rifle. The M40A3 is capable of one minute of angle t optics. Each M40A3 is custom built at Precision Weapons Section
		atic weapon that fires 40mm grenades. The MK19 can be mounted ense, decisive firepower against personnel and lightly armored

Exhibit P-40a, Budget Item Justifica	tion for Aggre	gated	Items		Date:		May 2009	
Appropriation / Budget Activity				P-1 Item Nome	enclature:		May 2000	
Procurement, Marine Corps (1109) / Weapons and Tracked Coml	hat Vehicles / 02				ons and Comba	t Vehicles Un	der \$5M	
Procurement Items		UOM	Prior Years	FY 2008	FY 2009	FY 2010	FY 2010 OCO	
i loculement items	Code	OCIVI	Tilor rears	1 1 2000	112009	1 1 2010	1 1 2010 000	
Direct Support Electronic Test Sets (DSESTS)	А	D	0.0	1.552	0.000	0.000	0.000	
		Q		3				
Tank Safety Mods/Tools and Test	A	D	1.2	3.843	0.232	0.000	0.000	
		Q		VAR	VAR			
Infantry Weapons Readiness	A	D	0.6	0.886	0.311	0.306	0.000	
manify Weapons Readiness		Q	0.0	VAR	VAR	VAR	0.000	
		_ ~		77.0.	77.11.	****		
M2 Machine Gun 50 Cal	А	D	15.8	4.596	0.000	0.000	0.000	
		Q		316.0				
				1.5:-				
M249 Squad Automatic Weapons (SAW) Upgrades	A	D	0.0	1.519	0.000	0.000	0.000	
		Q		VAR			+	
Rifle Team Equipment	А	D	0.1	0.041	0.140	0.142	0.000	
		Q	• • • • • • • • • • • • • • • • • • • •	VAR	VAR	VAR	1	
7.62 Machine Gun	А	D	10.9	3.158	0.000	0.000	0.000	
		Q		VAR				
0 (0)								
Scout Sniper Capability Sets	A	D Q	0.0	0.000 VAR	0.000	4.343 VAR	0.000	
		Q		VAK		VAR	+	
Tool Sets	А	D	0.0	2.216	1.814	0.000	0.000	
		Q		VAR	VAR			
Infantry Automatic Rifle	A	D	0.7	2.666	0.000	0.002	0.000	
		Q		VAR		VAR		
Spinor Waanana	Λ.		0.0	4.740	0.000	0.000	0.000	
Sniper Weapons	A	D Q	0.0	4.742 VAR	0.000	0.000	0.000	
		•		VAIX			1	
Company & Battalion Mortars	А	D	0.0	5.550	4.929	2.195	0.000	
		Q		VAR	VAR	VAR		
MK19 Machine Gun	A	D	0.0	11.617	0.000	0.000	0.000	
		Q		694.0			+	-
PEI Reprocurement	А	D	0.0	7.417	5.523	3.436	3.351	
-1		Q		VAR	VAR	VAR	VAR	
	Total		29.327	49.803	12.949	10.424	3.351	
	Active Reserve		29.327 0.000	49.803 0.000	12.949 0.000	10.424 0.000	3.351 0.000	

Exhibit P-5 Cost Analysis	Pro	oropriation/ Budg curement, Marin nbat Vehicles / (e Corps (110		apons and 1	racked	P-1 Line Iten Weapons an \$5M			Weapon	System Type:		May 2009	
Weapon SystemCost Elements	ID C	PRIOR YRS TotalCost	TotalCost			TotalCost	FY 09	UnitCost \$	TotalCost	FY 10 Qty	UnitCost \$	TotalCost	/ 10 OC Qty	UnitCost
	D	\$000	\$000	Each	\$	\$000	Gty Edon	στικοσσι φ	\$000	Each	OTHIOGOL W	\$000	Each	\$
Infantry Weapons Modifications	Α		8256	VAR	VAR	6454	VAR	VAR	5734	VAR	VAR	0		
Multi Shot Grenade Launcher Eng/Log Support	Α		6095 2000		6990	11275 1100		6990	9010 781	1289	6990	0		
TOTAL			16351			18829			15525					
ACTIVE RESERVE			16351 0			18829 0			15525 0					

	Exhibit P-5a - Budget Pr	rocureme	ent History and Planning					Date:	May 2000	
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Weapons 02	and Tracked Combat Vehicles /	Weapon S	System Type:		P-1 Line Ite		nclature:	Vehicles	May 2009 Under \$5M	
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method & Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issue Date
Multi Shot Grenade Launcher										
FY08 FY09 FY10	TBD TBD TBD	FP FP	MARCORSYSCOM MARCORSYSCOM MARCORSYSCOM	Sep-09 Oct-09 Dec-09	Oct-09 Apr-10 Mar-11	872 1613 1289	6990	Yes	N/A N/A N/A	N/A N/A N/A
REMARKS:										

PRODUCTION RATE PROCUREMENT LEADTIMES			E	EXHIE	BIT P-2	21 - PR	ODUC	TION	SCI	HED	ULE															Ma	ay 20	09				
Manufacturer's NAME / LOCATION					acked C	Combat		Wea	pon S	Systei	m				P-1 I	tem N	Nome	enclati	ıre:	Wea	apons	s and	Com	bat V	'ehicl	es Ur	nder (\$5M				
Manufacturer's NAME / LOCATION									PROI	DUCT	TION F	RATE					PRO	CURI	EME	NT LE	ADT	IMES	3									
Multi Shot Grenade Launcher (reo TBD	ITEM	Manufactu	urer's	NAME	E / LOCA	ATION		M	SR	EC	CON	М	AX	ALT		o Oct	ALT	After (Oct 1	Initia		Mfg	Reo		Mfg		TC	TAL				
Fiscal Year 08 Fiscal Year 10 Multi Shot Grenade Launcher	TBD						5	0	1	40	3	00					23			1						2	24		E			
TITEM	Multi Shot Grenade Launcher (rec	TBD																12						6			,	18		Е		
TITEM																																
TEM												F	iscal `	Year 0	8									F	iscal	Year (09					В
F															Cal	endar	Year	08								Calen	dar Y	ear 0	9			L
Multi Shot Grenade Launcher				V	Т	E	Α	С	О	Е	Α	E	Α	Р	Α	U	U	U	E	С	0	Е		E	Α	Р	Α	U		U	Е	N C
TEM	ITEM			C	,		_		V	C	IN	В	, ,	K	'	IN		G	r	'	٧	C	IN	В	I.		'	IN		G	_	
TEM	Multi Shot Grenade Launcher		80	МС	872	0	872																								Α	872
TEM																																
TEM																																
TEM																																
TEM																																
F S Q D B O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J J A S O N D J F M A M J J J A S O N D J F M A M J J J A S O N D J F M A M J J J A S O N D J F M A M J J J A S O N D J F M A M J J J A S O N D J T M A M J J J A S D D D D D D D D D												F	iscal `	Year 1										F								Α
TEM												_	1		Cal	endar	Year	10								Calen	dar Y	ear 1	1			L
Multi Shot Grenade Launcher 08 MC 872 0 872 140 140 140 140 140 140 32 U U U U U U U U U U U U U U U U U U	ITEM.		F Y	V	Т	E	Α	O C T	0	Е	Α	E	Α	Р	Α		U		S E P	O C T		E	Ā	E	Α	Р	Α		U	U	Е	С
Multi Shot Grenade Launcher 09 MC 0 1613 A 108 140 140 140 140 140 140 140 140 140 105 0	I I EM																															
Multi Shot Grenade Launcher 09 MC 0 1613 A 108 140 140 140 140 140 140 140 140 140 105 0	Multi Shot Grenade Launcher		08	MC	872	0	872	140	140	140	140	140	140	32																		0
	Multi Shot Grenade Launcher				5.2				,						140	140	140	140	140	140	140	140	140	140	105							
	Multi Shot Grenade Launcher		10		1289	0				Α																140	140	140	140	140	140	414
																									-							

	EXH	IIBIT	P-21	- PRO	DUCT	ION S	CHE	DUL	E										Da	ite:				Ма	ay 20	009				
Appropriation Code/CC/BA/BSA/Iten							Wea	apon	Syst	em				P-1	ltem	i No	men	clatu	re:						,					
Procurement, Marine Corps (1109) /	Weapons an	d Trad	cked (Combat	Vehicle	es / 02											١	Nea	pons	and	Cor	nbat	: Veh	nicles	s Un	der \$	35M			
							Р	ROE	UCT	ION	RAT	Έ			PRC	CU	REM	EΝΊ	LEA	DTI	MES	3								
ITEM	Manufacturer's	s NAN	/IE / LC	OCATIO	N		M	SR	EC	ON	M	ΑX		Prior	to		Γ Afte Oct 1		Initia Mfg P			Reord /Ifg P			то	TAL		Unit Mea	of sure	
Multi Shot Grenade Launcher	TBD						5	0	14	10	30	00			+		23	-	1						2	24		E		
Multi Shot Grenade Launcher (reord	TBD																12					6			1	8		Е		
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		F	S	Q T	D	В	0	N	D	J	F	М	A	М	J	J	A	S) N	D	J	F	M A	A	М	J	J	A	S	A N C
ITEM		Υ	V C	Y	E L	A L	C	0 V	E C	ΑN	E B	A R	P R	A Y	U N	U L	U G	E (N O V	D E C	A N	E B	R	P R	A Y	U N	U L	U G	E P	E
Multi Shot Grenade Launcher		10	MC	1289	875	414	140	140	134																			oxdot		0
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ITEM		F Y	S V C	Q T Y	D E L	B A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N U	J U L	A U G	S (N O O	D E C	J A N	F E B	M A R	A P R	M A Y	N N	J U	A U G	S E P	N C E
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REMARKS:																					-	1	1			I	_			
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	Exhibit	P-40, Budget Item	Justificatio	n Sheet			Date:		May 2009	
Appropriation / Budget Procurement, Marine (ons and Combat Vehic	eles / 02		P-1 Item Nor	nenclature:	Modular We	apon Syste	m (233400)	
Program Elements: 0206	6211M Divisions (Ma	ırine)	Code: A	Other Relate	d Program Ele	ements:				
	Prior Years	FY 2008	FY 2009	FY 2010	FY 2010 OCO	FY 2010 Total				
Proc Qty	46870									
Gross Cost	162.0	31.6	1.9	0.0	0.0	0.0				
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc (P-1)	162.0	31.6	1.9	0.0	0.0	0.0				
Initial Spares	0.6									
Total Proc Cost	162.6	31.6	1.9	0.0	0.0	0.0				
Flyaway U/C										
Wpn Sys Proc U/C										

Modular Weapon System (MWS) is a program consisting of two main variants of the M16 Family of Rifles. They are the M16A4 rifle and the M4/M4A1 carbine. The MWS consists of a rifle/carbine that has been modified by building into the design a military-standard rail in place of the integral carry handle/sight to permit quick mounting of various night/day/thermal sights. Additionally, hand guards with rails are attached to the barrel assembly to mount various accessories such as a modified M203 grenade launching system, flashlights and infrared laser pointers and other such devices. The MWS reduces the number of components required to attach accessories and allows configuration management at the operator level vice the current second and third echelons of maintenance.

Exhibit P-5 Cost Analysis			udget Activity/Se						menclature	Weapon	System	Date:		_
<u> </u>	Prod	PRIOR	arine Corps (110	9) / Wea _l Y 08	pons and	Combat	Modular FY 09	r Weapon	System	FY 10	,		May 200 Y 10 OC	
Weapon System Cost Elements	ID CD	TotalCoat	TotalCost \$000	Qty Each	UnitCost	TotalCost \$000		UnitCost \$	TotalCos t \$000	Qty Each	UnitCost \$	TotalCost \$000		UnitCo
Modular Weapon System (MWS)		5400												
M16A4 Rifles with Rail Adapter System (RAS)		91134	19537	22151	882									
M4 Carbines with RAS		44446	12025	9394	1280									
SL3 components for MWS						1892	VAR	VAR						
TOTA ACTIV RESERV	Æ	140980 140980				1892 1892								

	Exhibit P-5a, Budget Procu	rement l	listory and Planning					Date:	May 20	09
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Weapons	s and Combat Vehicles / 02	Weapon S	System Type:		P-1 Line Ite		clature: Weapon Syste		-	
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method & Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	Issu
Modular Weapon System										
FY08 - M16A4 Rifles with Rail Adapter System (RAS)	FN Manufacturing, Columbia, SC	FP	TACOM, Rock Island, IL	Jul-08	May-09	22151	882	Yes	N/A	N/A
FY08 - M4 Carbines with RAS	Colt Defense, Hartford, CT.	FP	TACOM, Rock Island, IL	May-08	Jun-09	9394	1280	Yes	N/A	N/A
REMARKS:				<u> </u>	l					

			EX	HIBIT F	P-21, PF	RODUC	CTION	SCHE	DULE											Date:						May:	2009				
Appropriation Code/CC/BA/B\$ Procurement, Marine Corps (*			omba	t Vehicle	es / 02		Weap	on Syst	tem					P-1 l	tem N	lome	nclatu	ıre:	,	Mod	dular	Wea	pon (Syste		33400					
, , ,								PRO	DUCT	ION RA	λΤΕ		T '			PRO	CURI	EME	NT LE					,			,				
ITEM	Manu	ıfactur	rer's I	NAME /	LOCATI	ON	M	SR	EC	ON	MA	١X		Prio	r to	ALT	After 1	Oct	Initia	l Mfg	PLT		rder PLT	Mfg		Т	OTAL		Unit	t of Me	asure
M16A4 Rifle	FN Manuf	acturii	ng, Co	olumbai,	SC		40	00	15	00	450	00					9						10				19		Е		
M4 Carbines w/ RAS	Colt Defer	nse, H	lartfor	d, CT.			15	500	20	000	250	00					7						13				20		Е		
										Fis	scal Yea	ar 08												Fis		ear 09					B A
		ī	1	1	1	1	1							Cale	ndar `	Year (08 						ı		_	alend	ar Year	09			A A
ITCM		F Y	S V C	Q T Y	D E L	B A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N U	U L	A U G	S E P	N C E
ITEM																														 	┼
M16A4 Rifle		08	MC	22151	0	22151										Α										926	3200	2094	3200	3200	9531
M4 Carbines w/ RAS		08	MC	9394	0	9394								A													1000	1000	1000	1000	5394
																															1
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										Fis	scal Yea	ar 10												Fis	cal Y	ear 11	l	1	<u>I</u>	<u></u>	В
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		F Y	S V C	Q T Y	D E L	B A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U	A U G	S E P	N C E
ITEM																														 	+
M16A4 Rifle		80	MC	22151	12620	9531	3200	3200	3131																						0
M4 Carbines w/ RAS		80	МС	9394	4000	5394	1000	1000	1000	1000	1000	394																			0
REMARKS:			I			I					l												l	ĺ	l		l	Ī			

	Exhibi	t P-40, Bud	get Item Jus	stification Sh	eet		Date:		May 2009	
Appropriation / Budge	et Activity/Seria	al No:			P-1 Item Nom	enclature:				
Procurement, Marine	Corps (1109)	/ Weapons a	nd Combat Ve	hicles (2)				MODIFICATION	N KITS	
Program Element:			Code:	Other Related	d Program Elem	nents:				
0206211M E	Divisions (Mari	ne)	Α							
	Prior Years	FY 2008	FY 2009	FY 2010	FY2010 OCO	FY 2010 Total				
Proc Qty										
Gross Cost	129.4	117.0	196.4	34.0	20.2	54.2				
Less PY Adv Proc										<u> </u>
Plus CY Adv Proc										<u> </u>
Net Proc (P-1)	129.4	117.0	196.4	34.0	20.2	54.2				
Initial Spares	4.5	0.0	0.0	0.0	0.0	0.0				
Total Proc Cost	133.9	117.0	196.4	34.0	20.2	54.2				
Flyaway U/C										
Wpn Sys Proc U/C										1

M1A1 TANK BLADE: The M1A1 Tank Blade is a semi-fixed earth moving attachment which provides a mobility/counter-mobility capability for the maneuver element, allowing preparation of fighting positions and rapid clearing of obstacles.

TANK RXBN: The M1A1 Tank RXBN effort addresses electronic obsolescence issues with the primary Line Replaceable Units (LRUs) within the tank hull and turret through the replacement of major components and obsolete circuit cards and electrical components.

M1A1 MOD KIT: The M1A1 Mod Kit Line is established to sustain the technology of the M1A1 Tank, procure and field critical safety related modification kits, and other supporting platform including Support and Test Equipment while addressing equipment deficiencies, safety related issues, and obsolete components. Funding will also procure and field modifications and upgrade/replace Special Purpose Test Equipment associated with the M1A1 Tank. And also includes miscellaneous tools and test items for the M1A1 tank and associated supporting platforms, and Materiel Fielding Support for the Combined Support Function Module, and the following items: Tool Kit, TV, IM, 3d ECH FM60A1; Tool Set, M1A1 Tank, 4th ECH, ORD Maint Kit; Tool Set, M1A1 Tank, 4th ECH GS Maint Kit; Tool Set, M1A1 Tank, 3D ECH, and Test Set, Simplified Test Equip.

M1A1 SURVIVABILITY AND LETHALITY ENHANCEMENT: This enhancement provides 3 crucial product improvements to the M1A1, including added armor, improved weapon station modifications, and counter-sniper protection systems. This effort includes Overseas Contingency Operations (OCO) funding to address Driver/Crew Improvised Explosive Device (IED) bla protection as well as other weapons station enhancements.

INFANTRY WEAPONS MODIFICATIONS: This line item is a roll-up program for supporting the enhancement of small arms equipment/systems. These efforts also address emerging requirements and provide support for investigating safety issues that arise.

TANK, COMBAT, FULL TRACK, 120MM GUN: This line is in support of the 202K end strength increase adding 44 tanks to the Approved Acquisition Objective (AAO) with one tank company to each of the two Tank Battalions and the Depot Maintenance Float Allowance.

IMPROVED RECOVERY VEHICLE (IRV): The M88A2 Hercules recovery vehicle is a Product Improvement Program which reuses the fielded M88A1 hull, upgraded with a new engine, transmission, hydraulics, suspension and armor protection, supporting recovery of vehicles weighing up to 70 tons.

The Recovery Vehicle, Full Track, M88 Equip is required in support of Operation Iraqi Freedom (OIF) to achieve pre-war asset inventories and to achieve total AAO. Funding will procure Original Equipment Manufacturer (OEM) systems technical support, safety and reliability related modification kits, logistics support for technical manual life cycle management, configuration status accounting and field retrofit labor and contractor install efforts. This is a level of effort funding line that does not buy end items.

BRIDGE BOATS: The Bridge Boat line is a roll up line that provides funds to procure Bridge Erection Boats and associated trailers, Improved Ribbon Bridges, and Rafting Set Ribbon Bridges. These systems provide the Marine Corps with the capabilities required for Marine Expeditionary Forces to overcome wet gap obstacles too wide to be breached or too deep to be forded by combat vehicles. The Bridge Erection Boat supports bridging and amphibious operations. The Improved Ribbon Bridge is a floating wet gap bridge system capable of carrying a MLC 80 (tracked) or 100 (wheeled) ton vehicle in stream currents up to 10 feet per second (5.9 miles per hour) and consists of 5 ramp bays and 12 interior bays. The Rafting Set Ribbon Bridge consists of 2 ramp bays and 5 interior bays and provides a MLC 80/100 rafting capability to ferry vehicles and personnel across wet gaps.

JOINT ASSUALT BRIDGE: The Armored Vehicle Launched Bridge (AVLB) Bridge is a scissor type bridge, supporting crossings of up to 70 tons. It is used to cross anti-tank ditches, natural obstacles, road craters and destroyed or weakened bridge spans, using the M60 Tank Chassis as a launch platform.

HMMWV UNDERBODY ARMOR: FRAG KIT 4: The Fragmentation Kit #4 (FK4) effort is designed to increase underbody blast protection for the HMMWV. It will combine additional armor in a V-shape design, raise the underbody farther away from the ground to create greater standoff, and provide for additional GVW/payload with upgraded suspension, wheels, and tires.

Exhibit P-40, Budget Item Justification Sheet		Date: May 2009
Appropriation / Budget Activity/Serial No:	P-1 Item Nomenclature:	
Procurement, Marine Corps (1109) / Weapons and Combat Vehicles (2)		MODIFICATION KITS

M1A1 120MM DATA LINK: Provides integration into the tank's Fire Control System (FCS) that allows for the employment of the 120mm Multi-Purpose, High Explosive Tank cartridge from the M256 Cannon, utilizing all three modes of operation that include point detonating, delay, and airburst. Home Station Training Requirements and Operation Enduring Freedom (OEF) Operational Requirement.

M1A1 ABRAMS COOLING VEST: The system provides cooling for the 4-man M1A1 crew. Cooling system consisting of 2 micro-climatic units and 4 cooling vests per M1A1. Home Station Training Requirements and OEF Operational Requirement.

M1A1 DRIVER'S REAR SENSOR: The M1A1 Driver's Rear sensor provides an uncooled thermal camera integrated into the existing taillight with a driver's display that enables the driver to manipulate the tank tactically in an urban environement without exposing crewmembers to enemy fire to support the dismounted infantry. Home Station Training Requirements and OEF Operational Requirement.

M1A1 IMPROVED EXTERNAL AUXILIARY POWER UNIT (IEAPU): Upgraded External Auxiliary Power Unit to supply 3KW vice 2KW of power, improved reliability and quieter operation. Home Station Training Requirements and OEF Operational Requirement.

M1A1 SPECIAL MISSION KITS: The M1A1 Special Mission Kits is a suite of enhancements to the M1A1 platform to improve lethality and survivability in the current OEF tactical environment. The suite includes external belly armor, suspended driver's seat, solar shields, Improved Loader's Weapon Station/Armored Gun Shield, and a Forward Observer/Forward Air Controller (FO/FAC) kit. OEF Operational Requirement.

ELECTRIC GENERATORS (MULTIPLE MODELS): (Various Generators, 2KW, 3KW, 10KW 20KW, 30KW, 60KW, 100KW) This program includes mobile electric power equipment used throughout the Fleet Marine Forces and Reserves. These are centrally managed items. Sizes and types of Generators and Mobile Electric Power Distribution Systems range from 2 kW to 100 kW in both 60HZ and 400HZ. All generators are selected from the standard family of DoD Mobile Electric Power (MEP) sources. This is a Joint DoD program. Current generators are from the Tactical Quiet Generator (TQG) family. The generators are operationally linked with Command, Control, Communications, Computers and Intelligence (C4I), weapons systems, and all systems requiring electrical power. C4I systems are increasing in power demand, which continues to drive the demfor generators and power distribution sets. C4I and supported weapons systems readiness is directly affected as power equipment readiness decreases. Current average age of generators is greater than 20 years. This program is based on the continuous replacement of generators that have exceeded their life-cycles with ones that incorporate environmental, safety, and performance enhancements.

Exhibit P-40a, Budget Item	Justifica	ation	for Aggre	gated Ite	ems		Date:	ay 2009				
Appropriation / Budget Activity Procurement, Marine Corps (1109) / Weapons	s and Com	nbat ∖	/ehicles (2)		P-1 Item	Nomencl			IFICATIO	N KITS		
Procurement Items	Code		Prior Years Total	FY 2008	FY 2009	FY 2010	FY2010 OCO					
M1A1 TANK BLADE	А	D	2.7	2.2	0.0	0.0	0.0					
		Q	12	9								
INFANTRY WEAPONS MODIFICATIONS	А	D	4.6	0.0	0.0	0.0	0.0					
		Q										
JOINT ASSUALT BRIDGE	А	D	0.0	0.4	0.0	0.0	0.0					
		Q		4								
BRIDGE BOATS	D	0.0	0.0	1.1	0.0	0.0	0.0					
		Q										
M1A1 SURVIVABILITY/LETHALITY	А	0.0	0.0	0.0	0.0	0.637	0.0					
		Q										
M1A1 120MM DATA LINK	A	D	0.0	0.0	0.0	0.0	0.950					
		Q					76					
M1A1 ABRAMS COOLING VEST	A	D	0.0	0.0	0.0	0.0	2.533					
		Q					76					
M1A1 DRIVER REAR SENSOR	A	D	0.0	0.0	0.0	0.0	1.140					
		Q					76					
M1A1 IMPROVED EXTERNAL AUXILARY	A	D	0.0	0.0	0.0	0.0	1.520					
		Q					76					
Т	otals		7.3	3.6	0.0	0.6	6.1					

BLI No. 206100 Item No. 10 Page 3 of 6

Exhibit P-5, Cost Analysis		ropriation/ Budg ocurement, Mari	-		ons and Coml			n Nomenclatu DIFICATION I		Weapon Sys	tem Type:	Date:	May 2009)
Weapon System		Prior Yrs		FY 2008			FY 2009			FY 2010		F۱	/ 2010 O	co
Cost Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost
Tank RXBN		65422												
Tank Safety Mods/Tools & Test Equip Tank, Combat, Full Track, 120MM Gun		5767	4253 76270	VAR 44	VAR 1733409	1653	VAR	VAR						
M1A1 Modification Kit		6591	11989	VAR	VAR	9507	VAR	VAR	29134	VAR	VAR			
M1A1 Driver's IED Surv. Enhancement. 2-Ton Belly Armor Improved Driver Seats						6400 1600	160 160	40000 10000						
Heavy Recovery Vehicle		8760	19893	7	2841857									
Logistical & Engineering Spt & GFE		2059	1000											
Improved Recovery Vehicle Logistics Support Activities Engineering Support Mod Kits									856 855 2508					
FK4 Underbody Armor Kits Armor Kit Suspension Upgrade Installation						88325 49147 37429	1749 1749 1749	50500 28100 21400						
FK4 Upgrade Kits & Spt.						2312								
M1A1 Special Mission Kits												5540	22	25181
Electric Generators (Multiple Models) (Various Generators, 2KW, 3KW 10KW, 20KW, 30KW, 60KW, 100KW)												8500	VAR	VAI
TOTAL ACTIVE RESERVE		88599 88599	113405 113405			196373 196373			33353 33353			14040 14040		

E	xhibit P-5a, Budget Procure	ement His	story and Planning					Date:	May 200	09
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Weapons a	and Combat Vehicles (2)	Weapon	System Type:		P-1 Line		menclature: MODIFICATI	ON KI	-	
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method & Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issue Date
Tank, Combat, Full Track, 120MM Gun-FY08 Heavy Recovery Vehicle, Full Track M88 - FY08	U.S. Army - TACOM - Warren, MI BAE Systems, York, PA	FFP SS-FFP	Warren, MI TACOM, Warren MI	Feb-08	Sep-08 Apr-09	44 7	1733409 2841857		N/A Apr-06	N/A Sep-07
M1A1 Driver's IED Survivability Enhancement-FY09 2-Ton Belly Armor Improved Driver Seats	General Dynamics Land Sys. General Dynamics Land Sys.	FFP FFP	Sterling Heights, MI Sterling Heights, MI	Mar-09 Mar-09	Oct-10 Oct-10	160 160		Υ	N/A N/A	N/A N/A
M1A1 SPECIAL MISSION KITS FY10 FK4 Underbody Armor	TBD TBD	TBD	TBD TBD	TBD	TBD TBD	22 1749	251810 100000		Feb-09 TBD	May-09 TBD
REMARKS:										

Item No. 10 Page 5 of 6

BLI No. 206100

FY 08/09 BUDG	ET EXHIBIT P-2	1, PR	ODU	CTION	SCHE	DULE														Date	e:				Ma	y 20	09				
Appropriation Code/CC/BA/BSA/		0 1					Wea	apor	n Sys	tem	1			P-1	Item	Nor	nenc	clatu	re:	_		.=					00				
Procurement, Marine Corps (110	9) / weapons and	Comb	at ver	nicies (2	<u>(</u>		В	200	NI IOT	-101	I D A -			_		200	UDE		. 		_	IFIC	AII	ON I	KIIS						
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TEM	Manufacture	er's N	AME /	LOCA	TION		M	SR	EC	ON	M	AХ		Oct '			Oct 1			nilia fg Pl			fg P			то	TAL		Unit Mea	t of asure	е
mprove Recovery Vehicle	BAE Systems, '	York, PA	4					1	4	4	1	0					6			10			1			1	16			Е	Ξ
120 MM Gun	Anniston Army	Depot, A	Annistor	n AL				1		1	1	0								3							3			Е	=
M1A1 Driver's IED Survivability Enhanace		nics lan	d Syste	ms, Sterl	ing Heigh	s, MI		2		4		0					5			12							17			Е	
FK4 Underbody Armor	TBD						TE	3D	TE	3D	TE			TBD)		TBD			TBD)		TBI				BD			E	
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ITEM		Y	V C	T Y	E	A	C T	0 V	E C	A N		A R	P R	A Y		U L	U G	E P	C T	0	E	A N	E B	A R	P R	A Y		_	U	E P	/ N
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Improve Recovery Vehicle, Full	rack M88	08	MC	7	0	7			Α																1	2	2	2	士	\Box	0
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120 MM Gun		80	MC	44		44					Α							10	10	10	10	4				₩	┢	┢	₩	$\vdash\vdash$	-
M1A1 Driver's IED Survivability E	nhancements	09	MC	160		160																		Α		匚	匚	匚	二		16
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M1A1 Driver's IED Survivability E	nhancements	09	МС	160		160	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	4	4	4	4	4	4	4	4	4	5
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		Exhibit P-4	0, Budget I	tem Justific	ation Sheet			May 2009			
Appropriation / Budget Act	tivity/Serial No:					P-1 Item Nome	nclature:				
Procurement, Marine Corp	os (1109) / Wear	pons and Comb	oat Vehicles (2)				Weapons	Enhancement F	Program	
Program Elements:				Code:	Other Related	Program Eleme	nts:				
	Prior Years	FY 2008	FY 2009	FY 2010	FY 2010 OCO	FY 2010 Total					
Proc Qty											
Gross Cost	77.4	43.5	56.6	22.2	9.2	31.4					
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc (P-1)	77.4	43.5	56.6	22.2	9.2	31.4					
Initial Spares											
Total Proc Cost	77.4	43.5	56.6	22.2	9.2	31.4					
Flyaway U/C		·				·					
Wpn Sys Proc U/C											

Family of Ballistic Protection Systems includes Full Spectrum Battlefield Equipment (FSBE) and Non-Destructive ESAPI (Enhanced Small Arms Protective Insert) Plate Evaluation Systems - FSBE is designed to replace the old Close Quarters Battle (CQB) suite of equipment and to address the needs of Marines performing Special Operations Capable missions in Maritime Special Purpose Force (MSPF) (i.e. MSPF detachment and helicopter assault company). Less weight, increased positive buoyancy, spare air source, and a cutaway system are all desired quality changes. The FSBE has 2 variants (Individual & Platoon), both of which have 4 configurations (A, B, C & D), and each configuration contains up to 43 components purchased from 6 different vendors with various unit prices and different production schedules.

Non-Destructive ESAPI Plate Evaluation Systems (NDE) - ESAPI Plates require Nondestructive Evaluation to ensure that they are serviceable. Current testing methods are unreliable. Five systems are required to provide the appropriate capability to test the ESAPIs with accuracy and will ensure the warfighter is properly protected and the logistician is provided the appropriate usage data for sustainment requirements. The system includes two components: NDE Test Equipment, which is temperature sensitive equipment with computerized parts that requires an environmentally controlled atmosphere and an NDE shelter to house and transport the NDE Test Equipment.

Operations Other Than War (OOTW) - Supports emerging needs of the Operating Forces as their critical Force Protection requirements continue to evolve. Based on information collected from Marine Corps Center for Lessons Learned (MCCLL), Marine Corps Forces (MARFOR) surveys, and the December 2006 Capabilities Based Analysis (CBA), the current Non-Lethal Weapon Capability Sets (NLWCS) and Anti-Terrorism/Force Protection Capability Sets (AT/FPCS) and includes Force Protection Capability Sets, the Non-Lethal Tube Launched Munitions System (NL/TLMS) and the Green Beam IIIC Visual Hailing and Warning Device.

Operations Other Than War (OOTW - FY10 OCO) - Supports emerging needs of the Operating Forces supporting MEB-Afghanistan (MEB-A) and Operation Iraqi Freedom (OIF) as their critical Force Protection requirements for standardizing non-lethal checkpoint control and search capability continue to evolve. Required systems are the Anti-Terrorism/Force Protection Checkpoint Set and the Translation Device Handheld Phraselator, the components are explicitly designed and primarily employed to incapacitate personnel or material while minimizing fatalities or permanent injury to intended targets and collateral damage to property and the environment. Additional Non-lethal systems required to support MEB-A and OIF is the Green Beam Designator IIIC Visual Hailing and Warning Device which is a Class IIIB (ANSI Class 3B) laser that emits a concentrated beam of visible green light. This laser device performs two functions; to provide a decisive hail and warning signal and to visually disrupt the critical task of a targeted subject.

				Date:
Exhibit P-40, Budget It	em Justific	ation Sheet		May 2009
Appropriation / Budget Activity/Serial No:		P-	-1 Item Nomenclature:	
Procurement, Marine Corps (1109) / Weapons and Combat Vehicles (2)				Weapons Enhancement Program
Program Elements:	Code:	Other Related Pro	ogram Elements:	

Anti-Terrorism/Force Protection Checkpoint Set - The AT/FP Checkpoint sets are fielded to operational forces and installations in order to provide an enhanced checkpoint and vehicle search capability. These sets are now included in the NLW Capability Sets.

M203 Grip Pod - A forward handgrip designed specifically to accommodate the M203 Grenade Launcher.

Family of Marine Enhancement Programs (MEP) - Congressionally initiated program that provides an avenue for obtaining equipment and end items that would otherwise be considered low visibility, low cost items. It focuses on equipment that will benefit the individual Marine by reducing the load, increasing survivability, enhancing safety and improving combat effectiveness with emphasis on Non-Developmental Items (NDI) and commercially available items which can be quickly evaluated and fielded. This program is coordinated with the Army's Soldier Enhancement Program and the Special Operations Command.

SNIPER SYSTEM CAPABILITY SETS (SSCS) - Provides funding to procure Sniper Personal Digital Assistants with the capability to quickly calculate ballistic solutions for precision shots to achieve first round kills.

Non-Lethal/Tube Launch Weapon (NL/TLW) - The NL/TLW is a 40MM, non-lethal, tube launched, hail and warning flash bang launcher, designed to be mounted on the turret of a vehicle coaxial with the main armament. It will provide the ability to deliver a high volume of non-lethal fire at effective ranges in both day and night operations. This will enable Marines to deter and dissuade errant vehicle operators from encroaching security zones; provide a means to determine intent; increase standoff distances and reaction time; increase force protection against Vehicle Borne Improvised Explosive Devices (VBIEDs); and prevent the killing of innocent civilians.

Green Beam Designator IIIC W/ Safety Control Module (GBD-IIIC) - Provides the Operating Forces with mechanical safety procedures to prevent permanate eye injury for a less than lethal capability to engage vehicle operators entering a Lethal Force Authorized Zone using a laser system, expanding engagement options of Marines during Escalation of Force (EoF) procedures at Entry Control Points (ECPs), Vehicle Check Points (VCPs), and convoy security operations. The GBD-IIIC with SCM will assist Marines in determining intent by shining a green beam onto the windshield of an approaching vehicle to ultimately warn the driver from encroaching into security zones without causing permanent blindness or harm. The GBD-IIIC with SCM will aid Marines in determining intent and increase the stand-off distance and reaction time in order to respond effectively to potential Vehicle Borne Improvised Explosive Devices.

					Date:						
Exhibit P-40a, Budget Item Justification for Aggregated Ite	ems							May 2009			
Appropriation / Budget Activity/Serial No:						P-1 Item Non					
Procurement, Marine Corps (1109) / Weapons and Combat Vehicles (2)			_					apons Enhan	cement Progra	m	
Procurement Items	Code	UOM	Prior Years	FY 2008	FY 2009	FY 2010	FY 2010 OCO				
Green Beam Designator IIIC W/ Safety Control Module (GBD-IIIC)	Α	D			4.400						
	+	Q			VAR				-	<u> </u>	
M203 Grenade Launcher Grip Pods	Α	D			2.252						
		Q			VAR						
Family of Marine Enhancement Program	Α	D	12.4	2.534	4.107	3.210					
		Q		VAR	VAR	VAR					
Sniper System Capability Sets		Q		0.350							
	-			VAR							
	+										
	+										
	1										
Subtotal				2.884	10.759	3.210					

Exhibit P-5, Cost Analysis		n/ Budget Ac t, Marine Cor			Fracked Con	nbat		n Nomenclat Enhancemen		Weapon Sy	stem Type:	Date:	May 2009	
Weapon System	ID	PRIOR YRS	F ()	FY 08			FY 09		gramm	FY 10			FY 10 OCO	
Cost Elements	CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
Family of Ballistic Protection Systems: Full Spectrum Battliefield Equipment (FSBE) - Platoon Kit (Configuration A) - Individual Kit (Configuration B) - Individual Kit (Configuration C) - Individual Kit (Configuration D) - Platoon Kit (Configuration D)	А	1952 5718 92	6478 1050	VAR VAR	VAR VAR	3212 1333 485	VAR VAR VAR VAR	VAR VAR VAR VAR	1933 15711 194 419	VAR VAR	VAR VAR			
Non-Destructive ESAPI Plate Evaluation System	А					3000	5	600000						
Non-Destructive ESAPI Plate Evaluation System Shelter	Α					2000	5	400000						
Operations Other Than War	Α		33109	VAR	VAR	780	VAR	VAR	771	VAR	VAR	9151	VAR	VAR
Anti-Terrorism/Force Protection Checkpoint Sets (ATFPCS) Logistical / Engineering Support	A					8200 124	41	200000						
Non-Lethal/Tube Launch Weapon (NL/TLW) Logistical / Engineering Support	A					9450 2550	225	42000						
TOTAL ACTIVE RESERVE		7762 7762	40637 40637			45854 45854			19028 19028			9151 9151		

Combat Vehicles Contractor and Location TBD	Contract Method and Type	System Type: Location of PCO	Award Date	P-1 Line Iter			hancomo	May 2009	
Contractor and Location	Method	Location of PCO	Award Date		P-1 Line Item Nomenclature: Weapons Enhancement Program				
TBD				Date of First Delivery	QTY Each	Unit Cost	Specs Avail?	Date Revsn Avail	RFP Iss Date
	FP	MCSC, Quantico, VA	Sep-09	Sep-10	41	200000	Yes	N/A	N/A
TBD	FP	MCSC, Quantico, VA	Jul-09	Sep-09	225	42000	Yes	N/A	N/A
JDLL, INC, Midvale, UT	FP	MCSC, Quantico, VA	Jul-09	Dec-09	5	600000	Yes	N/A	N/A
TBD	FP	TBD	Jul-09	Dec-09	5	400000	Yes	N/A	N/A
	JDLL, INC, Midvale, UT	JDLL, INC, Midvale, UT FP	JDLL, INC, Midvale, UT FP MCSC, Quantico, VA	JDLL, INC, Midvale, UT FP MCSC, Quantico, VA Jul-09	JDLL, INC, Midvale, UT FP MCSC, Quantico, VA Jul-09 Dec-09	JDLL, INC, Midvale, UT FP MCSC, Quantico, VA Jul-09 Dec-09 5	JDLL, INC, Midvale, UT FP MCSC, Quantico, VA Jul-09 Dec-09 5 600000	JDLL, INC, Midvale, UT FP MCSC, Quantico, VA Jul-09 Dec-09 5 600000 Yes	JDLL, INC, Midvale, UT FP MCSC, Quantico, VA Jul-09 Dec-09 5 600000 Yes N/A

ITEM	ви	DGET EXHIBIT	P-21,	PRC	DUCTI	ON	SCH	EDU	LE												Date	:				May	2000					
### PRODUCTION RATE PRODUCTION RATE PROPRIES PROP	Appropriation Code/CC/BA/BSA/Item Control No.							Wea	pon S	Svste	m				P-1 It	tem N	lomer	nclatu	ire.							iviay	2009	1	—	—	—	
PRODUCTION RATE PROCUREMENT LEADTIMES PROPERTY	1	/ehicles (2)								,							.011101	ioiata		١٨	leanc	ne F	nhan	camai	ot Dro	aram	,					
Manufacture	Trecurement, manne corps (1100)/ Weapons and combat	Comolog (2)						PR	וחס	ICT	ION	RΔT	F				POC	IIDE	-N/EN		_			Cerrie	11.11	Jyran						
Anti-Terrorism/Force Protection Checkpoint Sets TED		Manufacture de NAME	. / 1.00 ^ 1	TION							_			A I T	- D.:-								-				то:	T 4 1	—	Lini		
Non-Destructive ESAPI Plate Evaluation Systems TBD			LUCA	IION										ALI	Pric	or to	AL		ter			I	R	teora	er		_					
Non-Destructive ESAPI Plate Evaluation Systems JULL, INC, Midvale, UT																												-				
Non-Destructive ESAPI Plate Evaluation System Shelter TBD TB									-																							
Fiscal Year 08	,		ale, U I															_			_							_				
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Non-Destructive ESAPI Plate Evaluation System Shelter	ITEM					L	L	Т	V	С	Ν	В	R	R	Υ	N	L	G	Р	Т	V	С	N	В	R	R	Υ	N	L	G	Р	Е
Anti-Terrorism/Force Protection Checkpoint Sets (ATFPCS)					5		5																						Α			5
Non-Lethal/Tube Launch Weapon	Non-Destructive ESAPI Plate Evaluation System Shelter		FY09		5		5																						Α			5
	Anti-Terrorism/Force Protection Checkpoint Sets (ATFPCS)		FY09		41		41																								Α	41
Tight Tigh	Non-Lethal/Tube Launch Weapon		FY09	MC	225		225																						Α		30	195
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Non-Destructive ESAPI Plate Evaluation Systems	ITEM		Υ			ΙĒ	L																						Ĺ			C E
Non-Destructive ESAPI Plate Evaluation System Shelter			FY09	-	5		5					_	_	-								1							Н	H	\Box	0
Anti-Terrorism/Force Protection Checkpoint Sets (ATFPCS) FY09 MC 225 30 195 60 60 15 Non-Lethal/Tube Launch Weapon FY09 MC 225 30 195 60 60 15 Non-Lethal/Tube Launch Weapon FY09 MC 225 30 195 60 60 15 Non-Lethal/Tube Launch Weapon FY09 MC 225 30 195 60 60 15 Non-Lethal/Tube Launch Weapon FY09 MC 225 30 195 60 60 15 Non-Lethal/Tube Launch Weapon FY09 MC 225 30 195 60 60 15 Non-Lethal/Tube Launch Weapon FY09 MC 225 30 195 60 60 15 Non-Lethal/Tube Launch Weapon												_										1		1					Н	Н	\vdash	0
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	REMARKS:																												ш	ш		

	Exhibit	P-40, Budget Item	Justificat	ion Shee	t		Date:	May	2009	
Appropriation / Budge	t Activity/Serial N	lo:			P-1 Item Nome	enclature:				
Procurement, Marine	Corps (1109) / 3	- Guided Missiles and	Equipment				Ground Base	d Air Defense		
Program Elements:			Code:	Other Rela	ated Program E	lements:				
0206313M Marin	ne Corps Commu	unication Systems	Α							
					FY 2010	FY 2010				
	Prior Years	FY 2008	FY 2009	FY 2010	OCO	TOTAL				
Proc Qty										
Gross Cost	20.7	1.6	5.5	11.4	0.0	11.4				
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc (P-1)	20.7	1.6	5.5	11.4	0.0	11.4				
Initial Spares		0.0	3.7	1.8	0.0	1.8				
Total Proc Cost	20.7	1.6	9.2	13.2	0.0	13.2				
Flyaway U/C										
Wpn Sys Proc U/C										

Ground Based Air Defense (GBAD) Transformation supports the Low Altitude Air Defense (LAAD) Battalion's mission of Short Range Air Defense (SHORAD) and Force Protection Missions. FY-10 funds will be used to procure HMMWVs and upgraded C4 equipment for integration into A-MANPADS vehicles.

The initiatives are:

Advanced Man Portable Air Defense Systems (A-MANPADS) Replaced the Avenger and existing MANPADS (Stinger) vehicles, and retains LAAD Battalion's current Air Defense and self- protection (crew-served weapon) capabilities. Components of the A-MANPADS system include: M240 Machine Gun w/ Medium Thermal Weapons Sight, M2 .50cal Machine Gun w/ Heavy Thermal Weapons Sight, and a Defense Advanced GPS Receiver (DAGR) (replaces current GPS receiver-PLGR). Remote Terminal Unit (RTU): The initiative replaces the current 18lb laptop computer that provides Situational Awareness and Command and Control to the Stinger and A-MANPAD teams. The RTU replacement will interface with legacy Marine Air C2 and be capable of receiving a Common Aviation Command and Control Systems (CAC2S) broadcasted link.

Section Leader Vehicle: This initiative is to procure/ integrate the equipment necessary to field a Section Leader/ Platoon Commander Vehicle for the LAAD Battalions. In the past this capability had no standardization throughout the fleet.

Ground Vehicular Radio Communications (PRC-150/117) The initative will allow enhancement of the current Marine Corps Air Defense C2 architecture for early warning communication, air and ground situational awareness, and overall control of assets. The PRC-150/117 radio will alleviate the data link discrepancy and enable interoperability between Marine Air C2 and the LAAD Battalions by broadcasting an air and ground picture to deployed Stinger Teams.

Missile Integration: The Stinger Missile inventory is approaching shelf life expiration. This initiative will provide/procure a new engagement capability that replaces the Stinger Missile.

Exhibit P-5	App	propriation/ B	udget Acti	vity/Seria	ıl No:		P-1 Line It	tem Nome	nclature:	Weapon Type:	System	Date:		
Cost Analysis		curement, Ma siles and Equ		os (1109)	/ 3 - Guid	ded	Ground	Based Air	Defense				May 2009	9
	5	Prior Yrs		FY08			FY09			FY10		F	Y2010 OC	0
Weapon System Cost Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
0206313M Marine Corps Communication Systems														
Advance Man Portable Air Defense Systems	Α	3089												
Heavy Thermal Weapons Sight	Α	192												
Ground Vehicular Radio Communication Multi Band Radio	Α	4762	970	62	15645									
Ground Vehicular Radio Communication PRC-117	Α					1581	34	46500	1721	37	46500			
Ground Vehicular Radio Communication PRC-150	Α					256	8	32000	704	22	32000			
M1152 HMMWV	Α					660	4	165000	2640	16	165000			
Remote Terminal Unit Replacement	Α					523	11	47564	2236	47	47564			
Section Leader Gateway	Α					230	4	57500	920	16	57500			
Refburbishment and fielding Support	Α		287	VAR	VAR	1657	VAR	VAR	2686	VAR	VAR			
Contractor Logistic Support	Α		142	VAR	VAR	260	VAR	VAR						
JRE Consortium and Software Updates (A-MANPADS)	Α					310	VAR	VAR	480	VAR	VAR			
Missile Integration	Α													
Program Support	Α		191											
TOTAL ACTIVE RESERVE		8043 8043	1590 1590			5477 5477			11387 11387					

Appropriation / Budget Activity/Serial No: Procurement, Manine Corps (1109):/ 3 - Guided Missiles and Equipment WBS Cost Elements: Contractor and Location Wellhold Redio Communications System FY69 Vehicular Radio Communications MBR Harris, Rochester, NY FY09 RTU Replacement Section Leader Gateway Vehicular Radio Comm. PRC-117 Vehicular Radio Comm. PRC-150 HMM/WV M1152 Up Armored L3 San Diego, CA NSWC Crane, Bloomington, IA Harris, Rochester, NY Harris, Roch		Exhibit P-5a, Budget Pro	ocureme	nt History and Planr	ning				Date:	1ay 2009)
WBS Cost Elements: 0206313M Marine Corps Communication System FY08 Vehicular Radio Communications MBR Harris, Rochester, NY FFP SPAWAR, Charleston, August-08 WBS, Cost Elements: 0206313M Marine Corps Communications MBR Harris, Rochester, NY FFP SPAWAR, Charleston, August-08 WC Crane, Bloomington, IA Harris, Rochester, NY Harris, Rochester, NY FFP MCB, Quantico, VA August-09 March-10 August-09 March-10 August-09 March-10 August-09 March-10 August-09 March-10 August-09 February-10 August-09 March-10 August-09 August-09 May-10 August-09 Au	Appropriation / Budget Activity/Serial No:		Weapon :	System Type:		P-1 Line Item Nomer	nclature:			.,	
Contractor and Location Method & Type Speak Revsn Avail? August-08 March-10 11 47564 Yes NA N/A MCB, Quantico, VA August-09 March-10 August-09 March-1	Procurement, Marine Corps (1109) / 3 - Guided	d Missiles and Equipment				(Ground B	ased Air D	efense		
FY08 Vehicular Radio Communications MBR Harris, Rochester, NY FFP SPAWAR, Charleston, August-08 June-10 62 15645 Yes N/A N/A FY09 RTU Replacement Section Leader Gateway Vehicular Radio Comm. PRC-117 Vehicular Radio Comm. PRC-150 Harris, Rochester, NY HAMMWY M1152 Up Armored L3 San Diego, CA NSWC Crane, Bloomington, IA Harris, Rochester, NY FFP RCB, Quantico, VA August-09 March-10 August-09 March-10 August-09 March-10 August-09 February-10 August-09 February-10 August-09 February-10 August-09 February-10 August-09 March-10 August-09 March-10 August-09 February-10 August-09 February-10 August-09 February-10 August-09 March-10 August-09 February-10 August-09 February-10 August-09 March-10 August-09 March-10 August-09 February-10 August-09 March-10 August-09 February-10 August-09 March-10 August-09 February-10 August-09 March-10 August-09 March-10 August-09 February-10 August-09 March-10 August-09 August-09 March-10 August-09 August-09 March-10 August-09 August-09 March-10 August-09 August-09 March-10 August-09 August-09 August-09 May-10 August-09 Au		Contractor and Location	Method	Location of PCO	Award Date					Revsn	Issue
RTU Replacement L3 San Diego, CA NSWC Crane, Bloomington, IA Vehicular Radio Comm. PRC-117 Vehicular Radio Comm. PRC-150 HMMWV M1152 Up Armored L3 San Diego, CA NSWC Crane, Bloomington, IA Harris, Rochester, NY Harris, Rochester, NY FFP RTU Replacement L3 San Diego, CA NSWC Crane, Bloomington, IA Harris, Rochester, NY FFP RTU Replacement L3 San Diego, CA NSWC Crane, Bloomington, IA HMMWV M1152 Up Armored L3 San Diego, CA NSWC Crane, Bloomington, IA HMCB, Quantico, VA MCB, Quantico, VA MCB, Quantico, VA MCB, Quantico, VA August-09 March-10 Ma	FY08	arris, Rochester, NY		SPAWAR, Charleston,	August-08	June-10	62	15645	Yes		
	RTU Replacement Section Leader Gateway Vehicular Radio Comm. PRC-117 Vehicular Radio Comm. PRC-150 HMMWV M1152 Up Armored FY10 RTU Replacement Section Leader Gateway Vehicular Radio Comm. PRC-117 Vehicular Radio Comm. PRC-117 Vehicular Radio Comm. PRC-150 Ha	SWC Crane, Bloomington, IA arris, Rochester, NY arris, Rochester, NY eneral Motors, Morgan, MI B San Diego, CA SWC Crane, Bloomington, IA arris, Rochester, NY arris, Rochester, NY	WR FFP FFP FFP C/FP WR FFP FFP	MCB, Quantico, VA MCB, Quantico, VA MCB, Quantico, VA CO US Army Tank Automotive MCB, Quantico, VA MCB, Quantico, VA MCB, Quantico, VA MCB, Quantico, VA CO US Army Tank	August-09 August-09 August-09 June-09 November-09 November-09 November-09	March-10 February-10 February-10 March-10 May-10 May-10 May-10 May-10	4 34 8 4 47 16 37 22	57500 46500 32000 165000 47564 57500 46500 32000	Yes Yes Yes Yes Yes Yes Yes Yes Yes	NA NA NA NA NA NA NA	N/A NA NA NA N/A N/A NA

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Appropriation Code/CC Procurement, Marine C				siles a	nd		We	apo	n S	yste	m			P-1	Iten	n No	omei	ncla							. ,						
Equipment							_												G	irou	ind I	Bas	ed A	Air L)ete	nse					
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0206313M Marine Corps Communication Systems	Manufac	cturer's	NAME	/ LOCA	TION		M	SR	EC	ON	M	ΑX		Prid	or to 1		T Aft Oct 1			ial N PLT	_		eord fg P			TOT	ΓAL		ı	Uni Mea	t of sure
HMMWV M1152	General Motor	s, Mo	rgan, M	l				1	(6	1	0					7			9			8						EΑ		
RTU Replacement	L3 San Diego,	CA					,	3	1	0	1	5					5			15			5						EΑ		
Section Leader Gatewa	NSWC Crane,	Bloor	mington	, IA				1	í	3	(6					5			4			5						EΑ		
VRC-117	Harris Corp., F	Roche	ster, NY	,			10	00	2	50	35	50					6			15			5						EΑ		
VRC-150	Harris Corp., F						10	00		50	35						5			8			5				_		EΑ		
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Multi Band Radio		_	62	H	V	C	IN	Ь	I.	К	ı	IN	_	A	_	-	V	C	IN	В	r.	, r	\vdash	IN	Ė	G	г	62			
RTU Replacement			11																					\vdash		Α		11			
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Multi Band Radio		08	MC	62		62	Ė	Ė	Ť	H			- `	Ė	62	Ė	Ť			<u> </u>	Ť	·`	Ĭ		i.	Ħ	Ħ	Ť	Ť		0
VRC-117		09	MC	34		34	1				16	18			_										1	H	\sqcap		П		0
VRC-150		09	MC	8		8					4	4					H									H	П		П		0
RTU Replacement		09	MC	11		11						6	5													П	П		П		0
Section Leader Gatewa	ay	09	MC	4		4						4														П			П		0
HMMWV M1152		09	MC	4		4						4																	П		0
VRC-117		10	MC	37		37		Α						20		17													П		0
VRC-150		10	MC	22		22		Α						6	6	5	5										П		П		0
HMMWV M1152		10	MC	16		16		Α									8	8													0
RTU Replacement		10	MC	47		47		Α						12		12		12		11											0
Section Leader Gatewa	ay	10	MC	16		16		Α						5		6		5													0
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	Exhibit	P-40, Budget Item	Justificatio	n Sheet			Date:		May 2009	
Appropriation / Budge	et Activity/Serial No	0:			P-1 Item Nor	menclature:				
Procurement, Marine	Corps (1109) / Gu	uided Missiles and Equ	ipment / 03				Ja	velin (301100	0)	
Program Elements:			Code:	Other Relate	ed Program E	lements:				
0206	3211M Divisions (N	Marine)								
					FY 2010	FY 2010				
	Prior Years	FY 2008	FY 2009	FY 2010	oco	Total				
Proc Qty										
Gross Cost	0.0	9.2	35.5	0.0	0.0	0.0				
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc (P-1)	0.0	9.2	35.5	0.0	0.0	0.0				
Initial Spares										
Total Proc Cost	0.0	9.2	35.5	0.0	0.0	0.0				
Flyaway U/C										
Wpn Sys Proc U/C										

Javelin Block 1 - The new Block 1 Missile incorporates software, propulsion and warhead improvements over the Block 0. The Command Launch Unit of the Javelin Weapon System will be upgraded from a Blk 0 configuration to a Blk 1 configuration that consists of: larger diameter afocal for 9X - 12X magnification, image stabilization, automatically activates sleep mode when in use, optional batteries - BA5390 and BA5590, standard video external output, technical manual updates, and training.

Exhibit P-40a, Budget	Item Just	ificatio	on for Aggre	gated I	tems		Date:			М	ay 2009		
Appropriation / Budget Activity Procurement, Marine Corps (1109)	/ Guided Mi	ssiles a	nd Equipment	/ 03	P-1 Item	Nomencla	ature:		Javel	in (30110	0)		
Procurement Items	Code		Prior Years		FY 2008	FY 2009	FY 2010	FY 2010 OCO					
Javelin CLU Refurbishment	A	D	0.0		9.2	0.5	0.0	0.0					
TOTAL ACTIVE			0.0		9.2 9.2	0.5 0.5	0.0	0.0					
RESERVE					0.0	0.0	0.0	0.0					

Exhibit P-5		riation/ Budget Ac						tem Nomei		Weapon	System Type:	Date:		
Cost Analysis	Procure	ement, Marine Cor	ps (1109) / (issiles and Eq	uipment /		elin (301)	100)				May 2009	
		Prior Yrs		FY08			FY09			FY1	0		FY10 OC)
Weapon System Cost Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
JAVELIN														
Block 1 Missiles (DODIC: PM93)						31800	265	120000						
Govt Engineering Services						2000								
Govt Program Management						1200								
TOTAL						35000								
ACTIVE RESERVE						35000								

	Exhibit P-5a, Budget P	rocureme	ent History and Planning					Date:	May :	2009
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Guided Mis	ssiles and Equipment / 03	Weapon S	System Type:		P-1 Line Item Nomencla		velin (30110	0)		
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method & Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Cnass	Date Revsn Avail	RFP Issue Date
FY 09 Javelin Block 1 Missiles	Javelin Joint Venture, Orlando,	FFP	CCWS, Redstone Arsenal,	Aug-09	Aug-11	265	120000	Y		Apr-09
REMARKS:										

	EX	нівіт	P-2	1, PRO	DUCT	ION SC	CHE	DUL	E											Date	:				М	ay 2	009				
Appropriation Code/CC/BA/BS/ Procurement, Marine Corps (17		les an	d Equ	ıipment	/ 03			apon						P-1	Iten	n Nom	nenc	lature	e:		Já	avelir	n (30)11(
							Р	ROD	UCT	ΓΙΟΝ	RA	TE			F	PROC	URE	MEI	NT L	EAD ⁻	ГІМЕ	S									
ITEM	Manufa	acturer	r's NA	AME / Lo	OCATIO	NC	М	SR	EC	ON	М	AX	AL	T Prid			T Af Oct 1			Initia Ifg PL			eord Ifg P			TC	TAL		Un	it of I	Measure
Javelin Block 1 Missile	Javelin Joint	t Ventu	ıre, O	rlando,	FL		5	40	13	320	20	000					10			24							34				E
																														-	В
										Fi	isca	l Yea	r 08	Ca	lend	ar Yea	ar 08					ì	Fis		Year Calen		Year	09		_	A L
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ITEM			С	Y	L	L	Т	V	С	N	В	R	R	Y	N	L	G	Р	Т	V	С	N	В	R	R	Υ	N	L	G	Р	
Javelin Block 1 Missile		09	МС	265	0	265																							Α		265
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ITEM		F Y	S V C	Q T Y	D E L	B A L	O C T	N O V	D E C	JAZ	F E B	M A R	A P R	M A Y	N N	J U L	A U G	SEP	O C T	N O V	D E C	JAZ	FEB	M A R		M A Y	N O L	J J	A U G	S E P	N C E
Javelin Block 1 Missile		09	МС	265	0	265																							##		0
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	Exhibit P-	40, Budget Item	Justificatio	on Sheet			Date:	May 2009	
Appropriation / Budo	get Activity/Serial No:				P-1 Item Non	nenclature:	1	Way 2005	
	e Corps (1109) / Guide	d Missiles and Equi	ipment / 03				Follow on to SMAW (F	OTS) (301600)	
Program Elements:			Code:	Other Relate	ed Program Ele	ements:			
0206211M Divisions	(Marine)								
	Drien Veens	EV 2000	EV 2000	EV 2040	FY 2010	FY 2010 Total			
Proc Qty	Prior Years	FY 2008	FY 2009	FY 2010	OCO	Total			
Gross Cost	0.0	0.0	0.0	25.3	0.0	25.3			
Less PY Adv Proc									
Plus CY Adv Proc									
Net Proc (P-1)	0.0	0.0	0.0	25.3	0.0	25.3			
Initial Spares									
Total Proc Cost	0.0	0.0	0.0	25.3	0.0	25.3			
Flyaway U/C									
Wpn Sys Proc U/C									
variants (High Expaddition, the SMA Block 2: Block 2 v	olosive Dual Purpose W II system will inclu will be the SMAW II w	, High Explosive Ande a multi-purpose vall breaching (WI	Anti-Armor, se (MP), fire B), FFE enc	Novel Exploration of the Novel Exploration of	sive and Con ure (FFE) en and the Com	nmon Pract	functionally compatible was tice) to replace the existing to be added to the SN ice (CP), FFE encased reproved training capability	ing Mark 153 Moo MAW family of roo ocket to be added	I 0 SMAW launcher. In the latest that the latest that the SMAW family of the latest that the l

Proc	Equipment / 03	ne Corps (1109) / (No: Guided M			on to SMA	W (FOTS)	Weapon Sy	ystem Type			
ID CD	TotalCost	TotalCost	Qty	UnitCo	TotalCos	FY09 Qty Each	UnitCost	TotalCost	FY10 Qty Each		TotalCos	Qty	UnitCost
	φυσσ	\$000	Eacii	5ι φ	1 \$000		φ	φυσυ		Φ	1 \$000	Eacil	φ
Α								3025	114	26538			
Α								15640	650	24061			
								1956					
								2499					
								1166					
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≣								25333 25333					
	Proceand ID CD	Procurement, Mariand Equipment / 03 ID Prior Yrs TotalCost \$000 A A	Procurement, Marine Corps (and Equipment / 03 ID Prior Yrs TotalCost \$000 A A	Procurement, Marine Corps (1109) / Gand Equipment / 03 ID Prior Yrs FY08 TotalCost TotalCost Qty \$000 \$000 Each	Procurement, Marine Corps (1109) / Guided Mand Equipment / 03 ID Prior Yrs FY08 TotalCost TotalCost Qty UnitCo \$000 A A A	Procurement, Marine Corps (1109) / Guided Missiles and Equipment / 03 ID Prior Yrs FY08 TotalCost \$000 \$000 Each st \$ t \$000 A A	Procurement, Marine Corps (1109) / Guided Missiles and Equipment / 03 ID Prior Yrs TotalCost Sugar TotalCost	Procurement, Marine Corps (1109) / Guided Missiles and Equipment / 03 ID Prior Yrs TotalCost \$\frac{\text{FV08}}{\text{\$000}}\$ TotalCost \$\frac{\text{\$000}}{\text{\$\$000}}\$ Each \$\frac{\text{\$\$t\$}}{\text{\$\$s\$}}\$ \$\frac{\text{\$\$FV09}}{\text{\$\$t\$}}\$ \$\frac{\text{\$\$FV09}}{\text{\$\$t\$}}\$ \$\frac{\text{\$\$FV09}}{\text{\$\$t\$}}\$ \$\frac{\text{\$\$V07}}{\text{\$\$t\$}}\$ \$\frac{\text{\$\$FV09}}{\text{\$\$t\$}}\$ \$\frac{\text{\$\$V08}}{\text{\$\$t\$}}\$ \$\frac{\text{\$\$FV09}}{\text{\$\$t\$}}\$ \$\frac{\text{\$\$V07}}{\text{\$\$t\$}}\$ \$\frac{\text{\$\$FV09}}{\text{\$\$t\$}}\$ \$\frac{\text{\$\$V07}}{\text{\$\$t\$}}\$ \$\frac{\text{\$\$V09}}{\text{\$\$t\$}}\$ \$\frac{\text{\$\$V09}}{\text{\$\$t\$}}\$ \$\frac{\text{\$\$V09}}{\text{\$\$t\$}}\$ \$\frac{\text{\$\$FV09}}{\text{\$\$t\$}}\$ \$\frac{\text{\$\$V09}}{\text{\$\$t\$}}\$ \$\frac{\text{\$\$V09}}{\text{\$\$V09}}\$ \$\frac{\text{\$\$V09}}{\text{\$\$V09}}\$ \$\frac{\text{\$\$V09}}{\text{\$\$V09}}\$ \$\frac{\text{\$\$V09}}{\text{\$\$V09}}\$ \$\frac{\text{\$\$V09}}{\text{\$\$V09}}\$ \$\frac{\text{\$\$V09}}{\text{\$\$V09}}\$ \$\frac{\text{\$\$V09}}{\text{\$\$V09}}\$ \$\frac{\text{\$\$V09}}{\text{\$\$V09}}\$ \$\frac{\text{\$\$V09}}{\text{\$\$V09}}	Procurement, Marine Corps (1109) / Guided Missiles and Equipment / 03	Procurement, Marine Corps (1109) / Guided Missiles Follow on to SMAW (FOTS) (301600)	Procurement, Marine Corps (1109) / Guided Missiles Follow on to SMAW (FOTS) (301600)	Procurement, Marine Corps (1109) / Guided Missiles Follow on to SMAW (FOTS) (301600)	Procurement, Marine Corps (1109) / Guided Missiles Follow on to SMAW (FOTS) (301600) (30160

E	xhibit P-5a, Budget Procuremer	t History	and Planning					Date:	May 200	na
Appropriation / Budget Activity/Serial No:		Weapon S	ystem Type:			tem Nome				
Procurement, Marine Corps (1109) / Guided	Missiles and Equipment / 03					Follow on	to SMAW (F	OTS) (
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method & Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issue Date
SMAW II Launcher (TAMCN TBD) FY10	NAMMO Talley Mesa, AZ	C/FPI	MCSC, Quantico, VA	Aug-10	Jun-11	114	26538			
SMAW II MP FFE Rocket										
FY10	NAMMO Talley Mesa, AZ	C/FPI	MCSC, Quantico, VA	Aug-10	Jun-11	650	24061			
REMARKS:	<u> </u>			1	l					

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SMAW II Launcher	NAMMO Talley,	Mesa A	7				.3	80	10	00	15	50					10			10							20	\neg		Е	
SMAW II MP FFE Rocket	NAMMO Talley,							50		30	20						10			10							20	\dashv		E	
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SMAW II Launcher		10		114	0	114											Α												50		0
SMAW II MP FFE Rocket		10		650	0	650											Α										50	50	50	56	444
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SMAW II Launcher	NAMMO Talley,	Mesa A	7				3	0	10	00	15	50		00.			10			10			.9				20		Moak	E	
SMAW II MP FFE Rocket	NAMMO Talley,							0	18		20						10			10							20			E	
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		F Y	S V C	T Y	E	A L	O C T	0 V	E C	A N	E B	A R	P R	A Y	U	Ü	A U G	S E P	O C T	0 V	D E C	A N	F E B	A R	P R	A	U	U U	A U G	E P	E
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SMAW II MP FFE Rocket		10		650	206	444	56	56	56	56	56	56	54	54															\square		0
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	Exhibit	P-40, Budget Item	Justificatio	on Sheet			Date:		May-2009		
Appropriation / Budge					P-1 Item No				•		
Procurement, Marine	Corps (1109) / Gui	ded Missiles and Equ	ipment / 03				ti-Armor We	apons Systen	n - Heavy (AAW	/S-H)	
Program Elements:			Code:	Other Relate	ed Program E	lements:					
0206	211M Divisions (Ma	arine)									
					FY 2010	FY 2010					
D 0:	Prior Years	FY 2008	FY 2009	FY 2010	oco	Total					
Proc Qty	0.0	0.0	0.0	74.0	0.0	74.0					
Gross Cost	0.0	0.0	0.0	71.2	0.0	71.2					1
Less PY Adv Proc											1
Plus CY Adv Proc	0.0	0.0	0.0	74.0	0.0	74.0				+	
Net Proc (P-1)	0.0	0.0	0.0	71.2	0.0	71.2					
Initial Spares	0.0	0.0	0.0	74.0	0.0	74.0					1
Total Proc Cost	0.0	0.0	0.0	71.2	0.0	71.2					-
Flyaway U/C Wpn Sys Proc U/C											-
wpn Sys Proc u/C											1
Improved Target	Acquisition Sys	ion System (ITAS) is tem (ITAS)- An upg	s the solution rade to the	n to the AAV	VS-H. This f	unding prod /-Tracked, \	cures suppo Wire-Guided	t equipmen (TOW) 2 ai	nti-tank weapo	for ITAS pro	ogram.
Improved Target anti-armor forces. can be used with a	Acquisition Sys ITAS is consider all current version		s the solution rade to the engagement and is considered.	n to the AAV Tube-Launch nt system de idered to be	VS-H. This formed Optically esigned to enthe designate	unding prod /-Tracked, \ hhance the ted primary,	cures suppo Wire-Guideo Army's abili , future anti-	t equipmen (TOW) 2 ar y to domina tank missile	t and services nti-tank weapo te the ground system platfo	for ITAS pro on system fo maneuver b rm. This fur	ogram. r the light attle. ITAS ading

Exhibit P-5 Cost Analysis		iation/ Budget Acti				-i		tem Nome		Weapon	System Type:	Date:	M 0000	
·	Procu	rement, Marine Co	orps (1109) /	FY08	ssiles and Equ	iipment / 03	Heavy (A/	AWS-H) (3	01700)	FY1	0		May 2009	
Weapon System Cost Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000		UnitCost \$
Improved Target Acquisition System									61612	98	628694			
Contractor Production Services									4929					
PMO Engineering and Logistics Support									4684					
TOTAL									71225					
ACTIVE RESERVE									71225					

	Exhibit P-5a, Budget Pro	ocureme	nt History and Planning					Date:	May	2009
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Guided Miss	siles and Equipment / 03	Weapon S	ystem Type:		P-1 Line Item Nomencla Anti-A		oons System -	· Heavy (AAWS-H)
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method & Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issue Date
FY10	Raytheon, McKinney, TX		CCWS, Redstone Arsenal, AL	Mar-10	Apr-12	98	628694		Avail	Nov-09
REMARKS:										

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Appropriation Code/CC/BA/BSA/Item Procurement, Marine Corps (1109) /		d Equip	oment /	03			Wea	ipon :	Syste	m				P-1 l	tem l	Nome	nclatu		i-Arm	or W	eapo	ns S	ysten	n - He	eavy	(AAV	/S-H))			
							Р	ROD	UCT	ION	RAT	ΓE			Р	ROC	URE	MEN	NT LI	EAD	TIME	S									
ITEM	Manufacturer'	s NAM	1E / LO	CATIO	N		М	SR	EC	ON	MA	٩X	ALT	Prio	r to	ALT	After	Oct		Initial		F	Reord	er		TO	TAL		Unit	of M	easure
Improved Target Acquisition System	Raytheon, McKi	nney, T	X				1	0	3	3	4	0					5			25						3	30	_	F	Е	
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						Fiscal Year 08												Fis	cal \	ear (09					B A					
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ITEM		F Y	s v c	Q T Y	D E L	B A L	0 C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	N C E
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ITEM		F Y	S V C	Q T Y	D E L	B A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	n n	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	n n	A U G	S E P	N C E
Improved Target Acquisition System		10	MC	98	0	98						Α																			98
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REMARKS:																															

	EX	HIBI	Γ P-2	1, PRC	DUCT	ION SC	HEI	DUL	E											Date:					May	y 200	9				
Appropriation Code/CC/BA/BSA/Item Procurement, Marine Corps (1109) / 0		d Equip	oment /	03				pon S						P-1 I		Nome		Ant		nor W	_	_	/stem	ı - He	avy	(AAV	/S-H))			
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ITEM	Manufacturer'			CATIO	N		_	SR	EC		MA	_	ALI	Prio	or to	ALT		Oct		Initial		K	Reord	er			TAL		Mea	sure	
Improved Target Acquisition System	Raytheon, McKi	inney, T	X				1	0	3	3	40)					5			25						- 3	30			E	
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	Fiscal Year 12												F:-	cal Y	(40				$\overline{}$	В										
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ITEM		F Y	S V C	Q T Y	D E L	B A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	JUN	J L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	N C E
Improved Target Acquisition System		10	MC	98	0	98							33	33	32																0
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	Exhibi	t P-40, Budget Item	Justificatio	n Sheet			Date:		May 2009	
Appropriation / Budget A	Activity/Serial No:				P-1 Item Nome	enclature:				
Procurement, Marine Co	orps (1109) / Guided	Missiles and Equipment / 0	03				Modific	ation Kits (Miss	siles)	
Program Elements:			Code:	Other Related	Program Eleme	ents:				
020	06211M Divisions (M	arine)								
	Prior Years	FY 2008	FY 2009	FY 2010	FY 2010 OCO	FY 2010 Total				
Proc Qty										
Gross Cost	443.0	47.9	67.6	2.1	8.5	10.6				
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc (P-1)	443.0	47.9	67.6	2.1	8.5	10.6				
Initial Spares										
Total Proc Cost	443.0	47.9	67.6	2.1	8.5	10.6				
Flyaway U/C										
Wpn Sys Proc U/C										

Anti-Armor Weapon Systems Heavy- AAWS-H provides long range, lethal heavy anti-armor and assault fire to the anti-armor sections in the infant and tank battalions. In its primary anti-tank role, the system will be used to destroy main battle tanks and other armored vehicles before the firepower and shock action of enemy armor can be brought to bear on USMC formations. In its secondary role, AAWS-H will be employed against vehicles, helicopters and field fortifications of any type. The Improved Target Acquisition System (ITAS) is the solution to the AAWS-H.

AT-4 Launcher Trainers- AT-4 Launcher Trainers are used to simulate live fire. The launchers simulate the size and weight of the real rocket and utilize a 9mm round to simulate noise. OIF/OEF reintroduced the AT-4 missile system back into USMC inventory, thereby requiring the use of the trainer to familiarize the operators in the systems operation.

Improved Target Acquisition System (ITAS)- An upgrade to the Tube-Launched Optically-Tracked, Wire-Guided (TOW) 2 anti-tank weapon syster for the light anti-armor forces. ITAS is considered to be a precision engagement system designed to enhance the Army's ability to dominate the ground maneuver battle. ITAS can be used with all current versions of TOW missiles, and is considered to be the designated primary, future anti-tank missile system platform.

SMAW Tool Kits - Procures SMAW Boresight tool kits.

Exhibit P-40, Budget Item	Justificatio	n Sheet		Date: May 2009
Appropriation / Budget Activity/Serial No:			P-1 Item Nomenclature:	ividy 2000
Procurement, Marine Corps (1109) / Guided Missiles and Equipment / 0	3			Modification Kits (Missiles)
Program Elements:	Code:	Other Related	Program Elements:	
0206211M Divisions (Marine)		<u></u>		
SMAW Launcher - Procures components for the n Launchers to support the new Infantry Battalions ar	nd Enginee	er Companie	es.	
	h the missi on. Conver	ile and sightersion of TO	ts. This mod program W missiles for training	addresses safety of use issues and system component requires the procurement and integration of Missile
TOW Missile Containers - Transportation containe susceptibility.	rs for TOW	/ Missiles to	provide sympathetic	detonation protection and address electromagnetic
TOW - Bunker Buster Missile - Funds TOW-BB (E (WRMR) inventories. The TOW-BB provides the ca defined by the Advanced Anti-Armor Weapon Syste	pability to	defeat the a	nti-structure target se	enditures and War Reserve Material Requirements t (i.e. Bunkers, fortifications, and light armored vehicles)

Exhibit P-40a, Budget Iten	ı Just	ificatio	on for Aggre	gated It	tems		Date:	N	lay 2009	
Appropriation / Budget Activity Procurement, Marine Corps (1109) / Guid	ded Mis	siles and	l Equipment / 03		P-1 Item N	lomenclatu		ion Kits (Mis	ssiles)	
Procurement Items	Code	UOM	Prior Years		FY 2008	FY 2009	FY 2010	FY 2010 OCO	FY 2010 Total	
Anti-Armor Weapon System Heavy (AAWS-H)	Α	D Q			0.875 VAR	2.371 VAR	2.114 VAR	0.000	2.114 VAR	
AT-4 Launcher Trainers	A	D Q			0.200 187	0.000	0.000	0.000	0.000	
SMAW Launcher	A	D Q			1.702 75	0.000	0.000	0.000	0.000	
TOW Guided Weapon Mod	A	D Q	0.1		0.600 VAR	2.539 VAR	0.000	4.900 VAR	4.900 VAR	
SMAW Tool Kits	A	D Q			0.000	0.100 VAR	0.000	0.000	0.000	
TOW Missile Containers	A	D Q			0.000	0.000	0.000	3.606 3000	3.606 3000	
ТОТА	L		0.1		3.377	5.010	2.114	8.506	10.620	
ACTIV RESERV	_				3.377 0.000	5.010 0.000	2.114 0.000	8.506 0.000	10.620 0.000	

Exhibit P-5 Cost Analysis	Procur	oriation/ Budget Adement, Marine Co			lissiles and E	quipment /		Item Nome		Weapon	System Type:	Date:	May 200	9
- Cost / that you	03	Prior Yrs		FY08			FY09			FY1	0		FY10 OC	
Weapon System Cost Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
Improved Target Acquisition System		361180	19791	36	549741									
Integrated Logistics Support (Engineering, Fielding, CLS)			24698											
TOW-BB Missile						57720	1200	48100						
Govt Program Management						1573								
Govt Engineering Services						3305								
TOTAL		361180	44489			62598								
ACTIVE RESERVE		361180	44489			62598								

	Exhibit P-5a, Budget	Procurem	ent History and Planning					Date:	May	2009
Appropriation / Budget Activity/Serial No:		Weapon S	System Type:		P-1 Line Item Nomenclatu				•	
Procurement, Marine Corps (1109) / WBS Cost Elements:	Guided Missiles and Equipment / 03	Contract	1				cation Kits (Mis		Date	
Fiscal Years	Contractor and Location	Method & Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Revsn Avail	RFP Issue Dat
Improved Target Acquisition System - FY07 - FY08	Raytheon, McKinney, TX Raytheon, McKinney, TX	FFP FFP	CCWS, Redstone Arsenal, AL CCWS, Redstone Arsenal, AL	Mar-07 Jun-08	Nov-09 Aug-10	244 36				Nov-06 Nov-07
FY09 TOW BB Missiles	Raytheon Missile Systems Tucson, AZ	FFP	CCWS, Redstone Arsenal, AL	Aug-09	Aug-11	1200	48100	Y		Apr-09
REMARKS:										
REWARNS.										

	EX	HIBIT	Γ P-2	1, PRC	DUCT	ION SC	HE	DUL	E.											Date:					Ma	y 200	19				
Appropriation Code/CC/BA/BSA/Item (Procurement, Marine Corps (1109) / G		I Equip	ment /	03			Wea	pon :	Syste	m				P-1	Item	Nome	enclat	ure:		Mod	ifica	tion	Kits	(Mi	ssile	es)					
							Р	ROD	UCT	ION	RA	TE			F	PROC	CURE	EME	NT L	EAD ⁻	TIME	S									
ITEM	Manufacturer's	s NAM	IE / LO	CATION	I		M	SR	EC	ON	М	AX	AL.	T Pric	or to	ALT	After	Oct		Initial		F	Reord	ler		TO	TAL		Unit	of M	easure
Improved Target Acquisition System	Raytheon, McKi	nney, T	X				1	0	3	33	4	40					8						26			;	34		T	E	
TOW-BB Missiles	Raytheon, McKi	nney, T	X				12	200	30	000	42	200					10			24						;	34		F	E	
																													士	_	
					i					F	isca	l Yea	r 08									4	Fis	scal `	Year	09					B A
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ITEM		F Y	S V C	Q T Y	D E L	B A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J	Ŋ	A U G	S E P	0 C T	N 0 V	D E C	J A N	F E B	M A R	A P R	M A Y	J	J	A U G	S E P	N C E
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Improved Target Acquisition System		07	МС	244	0	244																						l	T		244
Improved Target Acquisition System		08	MC	36	0	36									Α																36
TOW-BB Missiles		09	MC	1200	0	1200																							Α		1200
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ITEM		F Y	S V C	Q T Y	D E L	B A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N N	U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N N	J L	A U G	S E P	N C E
Improved Target Acquisition System		07	MC	244	0	244		10	12	15	31	32	33	33	33	32	13								<u> </u>			L	₩	Щ.	0
Improved Target Acquisition System		08	MC	36	0	36						<u> </u>		_	_		17	19	Щ		Щ			_	<u> </u>		_	_	₩.	ldash	0
TOW-BB Missiles		09	MC	1200	0	1200	_					-		-	-		1	-	H		H			1	1	1	-	Ͱ	400	—	800
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																								T							
REMARKS: TOW missiles delivered in	n USMC lots based	on alt	ernatin	g produ	ction line	output w	/ith A	rmy.																							_

BLI No. 312300 Item No. 16 Page 6 of 7 Exhibit P-21, Production Schedule

	EX	HIBIT	Γ P-2	1, PRO	DUCT	ION S	CHE	DUL	E.											Date:					Ма	y 200)9				
Appropriation Code/CC/BA/B Procurement, Marine Corps (l Equip	ment /	03			Wea	apon	Syste	m				P-1	Item	Nome	nclat	ure:		Mod	ifica	tion	Kits	(Mi							
							Р	ROD	UCT	TION	RA	ГΕ			F	PROC	URE	MEI	NT L	EAD [*]	TIME	S									
ITEM	Manufacturer's	s NAM	IE / LO	CATION	1		М	SR	EC	ON	M	AX	AL	T Pric	or to	ALT	After	Oct		Initia	I	F	Reord	ler		TC	TAL		Unit	of M	easure
TOW-BB Missiles	Raytheon, McKi	nney, T	X				12	200	30	000	42	200					10			24					-		34	_	F	Е	
																												_			
																												_			
										F	iscal	Yea	r 12	Ca	lend	ar Yea	ar 12						Fis		Year Caler		ear '	13			B A L
ITEM		F Y	S V C	Q T Y	D E L	B A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	0 C T	N O V	D E C	J A N	F E B	M A R	_	M A Y	J U N	J U L	A U G	S E P	A N C E
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TOW-BB Missiles		9	MC	1200	400	800	400		400																						0
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		-	S	Q	D	В	0	N	D	J	F	М	Α	М	J	ai iea	A A	_	0	N	D	J	F	М	_	М	J	_	Α	S	A N
ITEM		F Y	S V C	T Y	E L	A L	O C T	O V	E C	A N	E B	A R	A P R	A Y	U N	U L	U G	S E P	0 C T	0 V	E C	J A N	E B	A R	Р	A Y	U N	D D	A U G	E P	C E
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REMARKS: TOW missiles de	II II IIONO I II I		لبسا																									Щ.			

Ext	nibit P-40, Bud	get Item Justification	n Sheet			Date:		May	2009		
Appropriation / Budget Activity/Serial No:				P-1 Item Nom	enclature:	<u>I</u>					
Procurement, Marine Corps (1109) / Con	nmunications and E	Electronics Equipment (4)			UN	NIT OPERATIONS	S CENTER / C	OMBAT OPER	ATIONS CENT	ER	
Program Elements:		Code:	Other Related	Program Elem	ents:						
0206313M Marine Corps Comm	nunication Equipme	ent A									
	Prior Years	FY 2008	FY 2009	FY 2010	FY2010 OCO	FY2010 TOTAL					
Proc Qty											
Gross Cost	332.0	142.2	39.4	19.8	0.0	19.8					
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc (P-1)	332.0	142.2	39.4	19.8	0.0	19.8					
Initial Spares	1.7	0.0	0.0	0.0	0.0	0.0					
Total Proc Cost	333.7	142.2	39.4	19.8	0.0	19.8					
Flyaway U/C											
Wpn Sys Proc U/C											

Combat Operations Center (COC) - AN/TSQ-239 (V)2/3/4 is a deployable, self-contained, modular, scalable and centralized facility which provides digital, shared Command and Control/Situational Awareness functionalities to enhance the Common Operational Picture (COP) for the Command Element, Ground Command Element, Air Combat Element, ar Logistics Combat Element. It is a commercial-off-the-shelf integrated hardware solution using unit provided radios, re-hosted tactical data systems, and available Marine Corps prime movers to transport the system. FY09 OCO funds is based on procuring 14 Capability Set IIIs and for H/W refresh for "G" model 2010 upgrades. FY10 funds required for hardware refresh for "G" model 2010 upgrades. Funding also supports 2 MEB Urgent Universal Needs Statement (UUNS) (Mar 09) to include OEF supplemental kits of various configurations, Tactical Collaboration Work Station (TCWS) integration (MCCDC) Letter of Clarification (LOC) and OIF Force retrograde. FY10 funds required for hardware upgrades for MAGTF COC migration and Integrated Logistic Support. This funding is needed to reequip the OIF systems returning from theatre and upgrading all "E" Model COCs to current "F" Model COCs.

Very Small Aperture Terminal (VSAT) - VSAT provides Beyond Line-of-Sight (BLOS), low-cost satellite communications up to speeds of 4 Mbps full duplex. VSAT fills a void of BLOS, high bandwidth capability within the Marine Logistics Group (MLG), Division, Wing, and MEUs. VSAT is an On-the-Pause (OTP) communications asset. It can be set up in 30 minutes or less once a unit has stopped to establish communications. VSAT will be used as an intra-theater satellite communications asset. It will rely upon Logistic Management Support Team Phoenix or TSC-85/93 links to provide Defense Information Systems Network (DISN) services via the Strategic Tactical Entry Points (STEP) or Teleport facilities.

Exhibit P-5, Cost Analysis	Procure	riation/ Budget A		- Commun	ications and	Electronic	Unit O	ne Item Nome perations Cer at Operations	nter /	Weapor Type:	System	Date:	May 20	09
	Equipm		T	EV/00				at Operations	Center	E)/40				
Weapon System Cost Elements	ID CD	Prior Yrs TotalCost \$000	TotalCost \$000	FY08 Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	FY11 Qty Each	UnitCost \$
COC (V)2 Integrated Logistics Support (V) 2 Program Management Support (V)2 Capability Blocks			45000 523		5000000	521 372 1190			451 807 2970					
(V) 3 (V) 4 Integrated Logistics Support (V) 3/4 Program Management Support (V) 3/4 Capability Blocks		95635 161345 4340 10693	14248 6337	10				1900000	1412 2410 11782					
GFE Training Very Small Aperture Terminal			22660 15900 10170		274865									
TOTAL ACTIVE RESERVE		272013 272013				39387 39387			19832 19832					

	Exhibit P-5a, Budget Pro	curemen	t History and Planning	g				Date:	May 200	9
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / C Equipment		Weapo	n System Type:		P-1 Line If Unit C		nclature: Center / Com		·	
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method & Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issue Date
FY08 Very Small Aperture Terminal	TBD	FFP	CECOM Ft Monmouth, NJ	Aug-08	Nov-08	37	274865	Y	N/A	N/A
COC (V)2	General Dynamics Scottsdale, AZ	FFP	Scottsdale, AZ	Aug-08	Sep-09	9	5000000	N	N	N/A
COC (V)3	General Dynamics Scottsdale, AZ	FFP	Scottsdale, AZ	Apr-08	Jul-09	7	2049250	N	N	N/A
COC (V)4	General Dynamics Scottsdale, AZ	FFP	Scottsdale, AZ	Apr-08	Apr-09	10	1424889	N	N	N/A
FY09 COC (V)3 (OCO)	General Dynamics Scottsdale, AZ	FFP	Scottsdale, AZ	Jun-09	Jan-10	14	1900000	N	N	N/A
REMARKS:										

EXHIBIT P-21, PRODUCTION																				Date):				Ма	ıy 200)9				,
Appropriation Code/CC/BA/BSA/Item (Procurement, Marine Corps (1109) /Co		d Electi	onic E	quipmer	nt (4)				Syste					P-1		Į		Эре					Coi	mba	t Op	erat	ions	s Cei	nter		
							Р	ROD	UCT	ION	RA	TE					URE			EAD	TIMI	ES									
ITEM	Manufacturer's	s NAM	IE / LC	CATION	N		M	SR	EC	ON	M	AX		T Pri Oct		ALT	After 1	Oct		tial M PLT	-		order PLT	Mfg		TO	TAL		Uni	of M	easure
Very Small Aperture Terminal	TBD						2	2	,	5	1	0					10			3						1	13		F		
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										Fi	scal	Year	r 08	Cal	enda	r Yea	r 08						Fi	scal C			ear (09			A L
ITEM		F Y	S V C	Q T Y	D E L	B A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	0 C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N N	JUL	A U G	S E P	A N C E
ITEM		00	MC	37		37	1													5		5		_	5	E		┢	┢		0
Very Small Aperture Terminal		80	MC	31		31	1						1				Α			Э	5	5	5	5	5	5	2	⊣	┢		0
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ITEM		F Y	S V C	Q T Y	D E L	B A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N N	J L	A U G	S E P	0 C T	N O >	D E C	J A N	F E B	M A R	A P R	M A Y	N N	T D	A U G	S E P	N C E
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REMARKS:		-			-	-																									

	EX	HIBIT	P-21	, PRO	DUCT	ION SC	HED	ULI	E											Date	:				Ma	ay 200	09				
Appropriation Code/CC/BA/BSA/Item Procurement, Marine Corps (1109) /		d Elect	ronics	Equipme	ent (4)		Weap	oon S	Syster	m				P-1	Item I		enclat Jnit C		ratio	ns (Cent	er/	Cor	nba				: Ce	nter		
							PF	ROD	UCT	ION	RAT	ГΕ			PF		URE	_													
	Manufacturer's	s NAM	IE / LO	CATION	١		MS	SR	ECO	ON	MA	AX		Γ Prio		ALT	After 1	Oct		nitial g PL			eord Ifg Pl			TC	TAL		Unit Mea	of sure	
COC (V) 2	General Dyna	mics S	cottsda	ale, AZ					2	2	3	3					11			12							23		Е		
COC (V) 3	General Dyna								3	3	7	7					6			15						- 7	21		Е		
COC (V) 4	General Dyna	mics S	cottsda	ale, AZ					3	3	7	7					6			12						-	18		Е		
										Fis	scal `	Year	80										Fi		Year						B A
														Cal	endai	r Yea	r 08							C	alen	dar Y	ear (09			L A
		F Y	S V C	Q T Y	D E L	B A	O C T	N O V	D E	J A N	F E B	M A R	A P R	M A Y	J U N	J	A U	S E P	O C T	N O V	D E C	J A N	F E B	M A	A P	M A Y	J	J U L	A U G	S E P	N C E
ITEM						L		V	С	IN	В	ĸ		ř	IN	L	G	٢	'	V	C	IN	В	R	R	L,	N				
COC (V) 3 (Troop Surge Req)		80	MC	7		7							Α													丄	igspace	2	2	-	0
COC (V) 4 (Troop Surge Req)		80	MC	10		10							Α												1	1	1	5	1	1	0
COC (V) 2		08	MC	9		9											Α	_								┾	igspace			1	8
COC (V) 3		09	МС	14																						F	Α				14
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										Fis	scal `	Year	10			.,							Fi		Year						B A
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		F Y	S V C	Q T Y	D E L	B A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N U	J U	A U G	S E P	С	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	N C E
ITEM											Ь	K	K		IN	_	G	_		v	C	IN	ь	K	I.	Ļ	- 1	_	G	Г	
COC (V) 2		08	MC	9	1	8	2	2	2	2																₩	₩'				0
COC (V) 3		09	MC	14	0	14				3	3	3	3	2												₩					0
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	Exhibit P-	40, Budget Item J	lustificatio	n Sheet			Date:		May 2009	
Appropriation / Budget	Activity/Serial No:				P-1 Item Nome	enclature:				
Procurement, Marine C	orps (1109) / Communicat	tions and Electronics Ed	quipment (4)				Repa	ir and Test Equ	uipment	
Program Elements:			Code:	Other Related	Program Eleme	ents				
0206313M Marine Corp	s Communication Equipm	ent	Α							
	Prior Years	FY 2008	FY 2009	FY 2010	FY10 OCO	FY10 total				
Proc Qty										
Gross Cost	650.1	84.1	91.4	31.1	11.7	42.8				
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc (P-1)	650.1	84.1	91.4	31.1	11.7	42.8				
Initial Spares	2.9		1.4	0.3						
Total Proc Cost	653.0	84.1	92.8	31.4	11.7	42.8				
Flyaway U/C										
Wpn Sys Proc U/C										

This is a roll-up line which contains the following programs and includes many different items and separate acquisitions.

General Purpose Electronic Test Equipment (GPETE): GPETE items are required to support USMC weapon systems that utilize or consist of electronic components. GPETE is essential to the operational readiness of the Marine Corps for the installation, operation, and maintenance (preventive and routine) of electronic weapon systems and equipment in bo USMC operating forces as well as the supporting establishment (Schools/Bases).

General Purpose Mechanical Test Equipment (GPMTE): This program is a combination of many types of test equipment used to diagnose Motor Transport, Ordnance, and Engineer tracked, wheeled, and stationary equipment. This test equipment is essential in maintaining the readiness of USMC weapon systems in both the Marine Corps operating forces as well as the supporting establishment (Schools/Bases).

General Purpose Tool, Sets, Chests & Kits (TS&K): Funds are used to buy tools to support all types of Marine Corps ground equipment. The program includes over 40 different types of individual mechanic or technician tool kits as well as the larger, mobile or deployable, organizational tool sets.

Autonomic Logistics (AL): AL provides platform-based situational awareness to Marine Corps ground weapon systems. AL interfaces to a weapon system data bus to collect and process sensor data into actionable information. AL provides systems health, fuel and ammo levels, mobile and troop load information to the combatant commander and his supporting staff.

Third Echelon Test System (TETS): The TETS program provides mobile automatic testing on line replaceable units and circuit card assemblies, enabling rapid restoration of weapon systems. Consisting of hardware and software portable equipment, TETS is used by maintenance personnel in troubleshooting of digital/analog, communication/electronic, electromechanical, and electro-optical equipment.

Exhibit P-40, Budget Item Justification Sheet	Date: May 2009
Appropriation / Budget Activity/Serial No:	P-1 Item Nomenclature:
Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4)	Repair and Test Equipment

Calibration Facilities (CF): This program specifically supports GPMTE, GPETE, and ATE programs. The CF provides a calibration and repair capability to sustain the maintenance capability of the Marine Expeditionary Forces; to test, calibrate and repair USMC Test, Measurement, & Diagnostic Equipment (TMDE) (GPMTE, GPETE, and ATE). TMDE is used to support pre-combat technical inspections and repair of infantry weapons, armor, artillery, missile systems, communications equipment, computers, chemical-biological and nuclear detection equipment, engineer and motor transport equipment.

Marine Corps Automatic Test Equipment (ATE): General purpose ATE and Application Program Set (APS). The ATE integration is the process of combining ATE and APS support to provide dynamic test/diagnostic capabilities to Marine Corps Ground Weapons. The Calibration Facilities allows for the comparison of measurement and test equipment or measurement standard of unknown accuracy to a measurement standard of known accuracy in order to detect, correlate, report or eliminate any variation in the accuracy of the instrument being compared. General purpose ATE allows one tester to support testing of digital/analog, communication electronics, electro-mechanical, and electro-optical assemblies and subassemblies. APSs are used for specific weapon systems to test the assembly as if it were installed and operating in the weapon platform.

Electronic Maintenance Support System (EMSS): The Electronic Maintenance Support System (EMSS) is composed of several main components including the Electronic Maintenance Devices (EMD), regional servers, deployment servers, charger racks, and ruggedized deployment cases. EMSS is a rugged organizational-level (O-level), lightweight, one-man portable maintenance device capable of supporting multiple platforms and systems across maintenance communities. EMSS provides a Commercial Off-The-Shelf (COTS) hardware device equipped with network interfaces, Built-In-Test/Built-In-Test Equipment (BIT/BITE) interfaces, and Software Defined Test Instrument (SDTI) General Purpose Electronic Test Equipment (GPETE) capabilities. These hardware capabilities will enable commercial or custom DoD and USMC software capabilities including Interactive Electronic Technical Manuals (IETMs), Computer Based Training (CBT), access to Subject Matter Experts (SMEs) over USMC networks, and other maintenance applications to be hosted on EMSS. With these capabilities, maintainers will make more informed decisions, thereby sustaining force readiness over time.

Marine Corps Expeditionary Shelter System: EMI Maintenance Shelter is a part of the Marine Corps Field Logistics System (MCFLS). This system of support equipment provides for use of standardized shelters which are easily erected, relocated, compatible with current Marine Corps transportation modes, require minimum maintenance, and will protect equipment and functions needed to support Fleet Marine Force (FMF) operations. This shelter presents the unique variation of one 20-foot EMI/EMC shelter and three 10-foot Rigid/EMC shelters being used for special purposes. Each shelter is configured to support its mission. Many of the current communication systems being fielded today require a climate controlled environment in order to perform the required corrective maintenance. These old shelters must be replaced in order to ensure continued support current and future inventory of Electronic Communication Systems.

TOW Test Equipment: Procures various TOW Weapons Systems support and test equipment to replenish OEF assets.

Exhibit P-40a, Budg	et Item Ju	stifica	ation for Agg	regated Ite	ms		Date:	May 2009	
Appropriation / Budget Activity					P-1 Item Nome	nclature:	•		
Procurement, Marine Corps (1109) / Comm	nunications a	nd Elec	tronics Equipmer	nt (4)		Repa	ir and Test Equi	ipment	
Procurement Items	Code	UOM	Prior Years	FY 2008	FY 2009	FY 2010	FY10 OCO		
TOW Test Equipment	А	D					0.559		
		Q					Var		
Electronic Maintenance Support System (EMSS)	Α	D				1.959			
		Q				Var			
	Total					1.959	0.559		
	· Jtai					1.333	0.009		

Exhibit P-5 Cost Analysis		oriation/ Budget ement, Marine (cations and I			Item Nomer		Weapon S	System Type:	Date:	May 2000	
	Equipm	nent (4)	1	=\/	1			air and Test I	Equipment	=>//2			May 2009	
Weapon System Cost Elements	ID CD	Prior Yrs TotalCost \$000	TotalCost \$000	FY08 Qty Each	UnitCost \$	TotalCost \$000	Qty	UnitCost \$	TotalCost \$000	FY10 Qty Each	UnitCost \$	TotalCost	FY10 OCO Qty Each	UnitCost \$
General Purpose Electronic Test Equip (GPETE)		31304	12863	VAR	VAR	•	Each VAR	VAR	•	VAR	VAR	\$000 1022	VAR	VAR
ENGINEERING SUPPORT Navy Activities (NSWC & NRL)		2283	867			1281			1570			364		
SOFTWARE SUPPORT Operating Software		767	250			328			449			121		
LOGISTIC SUPPORT Training Material Factory Training Tech Manuals Provisioning Data		1084	202			825			972			225		
Quality Assurance Testing New Equipment Training (CBT) TOTAL - GPETE		35438	14182			9778			7331			1732		
Autonomic Logistics Eng/Tech Svcs Training Support Equipment Software Integration Logistics Support		87009 6866 1630 5650 3112 3254	714 66 750			146 816 1479			62					
Program Management Installation		2381	2268			3596 4643			4490					
TOTAL - AL		109902	3798			10680			4552					
Subtotal		145340	17980			20458			11883			1732		

Exhibit P-5 Cost Analysis		riation/ Budget Activement, Marine Corpent (4)	•	nmunicat	ions and Elec	tronic		ne Item Nome air and Test E		Weapon Sys	tem Type:	Date:	May 2009	
		Prior Yrs		FY08			FY09			FY10		F	Y 10 OCO	
Weapon System Cost Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
Third Echelon Test System		86422	27311	27	1011519	11205	11	1018636				1324	VAR	VAR
Eng/Tech Svcs Training Support Equipment		1440	1347			590								
Software Integration Logistics Support		580	439			200								
Program Management TOTAL - TETS		285 88727	51 29148			198 12193						1324	VAR	VAR
General Purpose Mechanical Equip		64325	12297	VAR	VAR	10579	VAR	VAR	5115	VAR	VAR	287	VAR	VAR
Tools, Sets, Chest & Kits		16,067	18364	VAR	VAR	17225	VAR	VAR	1687	VAR	VAR	7839	VAR	VAR
MC Automatic Test Equipment		4812	4329	VAR	VAR	18672	VAR	VAR	508	VAR	VAR			
Calibration Facility (Transportable) CAL ENGINEERING & LOGISTICS SUPPORT TOTAL - Calibration		17955 6731 24686	1137 824 1961	VAR	VAR	1222 880 2102		VAR	5885 4050 9935	VAR	VAR			
Marine Corps Expeditionary Shelter						10127	VAR	VAR						
Subtotal Total		198617 343957	66099 84079			70898 91356			17245 29128			9450 11182		

	Exhibit P-5a, Budget Procurer	ment His	tory and Planning					Date:	May 200	9
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Commu	unications and Electronics Equipment (4)	Weapon S	ystem Type:		P-1 Line It		nclature: pair and Test E	-		<u> </u>
WBS Cost Elements:	Contractor and Location	Contract Method &	Location of PCO	Award Date	Date of First	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn	RFP Issue
Fiscal Years		Type		Date	Delivery	Each		Avail?	Avail	Date
Third Echelon Test System	B:	EED				07	4044540	V	N1/A	N1/A
FY08 FY09	Diamond Mola Enterprises, FL Diamond Mola Enterprises, FL		MARCORSYSCOM MARCORSYSCOM	Jun-08 Jan-09	Aug-08 Mar-09	27 11	1011519 1018636	Yes Yes	N/A N/A	N/A N/A
Expeditionary Shelter System										
FY09	TBD	FFP	MARCORSYSCOM	Jun-09	Aug-09	VAR	VAR	Yes	N/A	N/A
Autonomic Logistics										
FY09	Lockheed Martin STS Orlando, FL	FFP	MARCORSYSCOM	Jan-09	Mar-09	VAR	VAR	YES	N/A	N/A
FY10	Lockheed Martin STS Orlando, FL	FFP	MARCORSYSCOM	Jan-10	Mar-10	VAR	VAR	YES	N/A	N/A

	FY10 BUD	GET I	EXHIE	BIT P-2	21, PR	ODUCI	ION	SC	HEC	DUL	E									Date	e:										
Appropriation Code/CC/BA/BSA/Iter	n Control No.								Syste					P-1	Item	Nom	encla	ture:								y 200)9				
Procurement, Marine Corps (1109) /	Communications and	d Elect	ronics	Equipme	ent (4)		PI	ROD	UCT	ION	RΔ٦	F			DE	200	IIRE	NAEI	NT I		epair TIM		Test	Equi	pmer	nt			—	—	
ITEM	Manufacturer's	s NAM	1E / LO	CATION	١			SR	EC		M			Γ Pric	or to					Initia	ıl	R	Reord Ifg Pl			то.	TAL		Unit Meas		
Third Echelon Test System	DME Orlando,	, Florid	а					1	2	2	4	1	,	OCI I	!		8		IV	2		IV	iig Fi	-!			0		Each		
										Fi	scal	Year	80	Cal	enda	. V.	- 00						Fi		Year		ear (A L
		F	S	Q	D	В	0 C	N	D	J	F	М	Α	М	J	J	A U	S E	0	N	D	J	F	М	Α	М	J	J	Α	S E	A N C
ITEM		Ϋ́	V C	T Y	E L	A L	C T	0 V	D E C	A N	E B	A R	P R	A Y	U N	U L	U G	E P	O C T	0 V	E C	A N	E B	A R	P R	A Y	U N	U L	U G	E P	E
Third Echelon Test System		08	МС	27	0	27									Α		4	4	4	4	4	4	2								0
Third Echelon Test System		09	МС	11	0	11																Α		3	4	4	H		H		0
																															В
										FI	scal	Year		Cale	enda	r Yea	r 10						FI		Year Calen		ear 1	11	—	-	A L
ITEM		F Y	S V C	Q T Y	D E	B A	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U I	A U G	S E P	A N C E
12.11			C	·				V	C	IN	ь	K	K	1	IN		G	r		V	C	IN	В	K	K	1	IN	Ė	G		
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REMARKS:					_	_																									

	Exhil	bit P-40, Budget Item	Justification	Sheet			Date:		May 2009	
Appropriation / Budge Procurement, Marine		unications and Electro	onics Equipme	nt (4)	P-1 Item Nome	enclature:	COMBAT	SUPPORT	SYSTEM	
Program Elements: 0206313M Mar	Program Elements: Code: Other Re 0206313M Marine Corps Communication Equipment A			Other Related	d Program Eleme	ents:				
	Prior Years	FY 2008	FY 2009	FY 2010	FY2010 OCO	FY 2010 Total				
Proc Qty										
Gross Cost	64.3	28.0	37.0	11.4	0.5	11.8				
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc (P-1)	64.3	28.0	37.0	11.4	0.5	11.8				
Initial Spares	0.7	0.0	0.0	0.0	0.0	0.0				
Total Proc Cost	65.0	28.0	37.0	11.4	0.5	11.8				
Flyaway U/C										
Wpn Sys Proc U/C								•		

GLOBAL COMBAT SUPPORT SYSTEM - MARINE CORPS (GCSS-MC) Global Combat Support System-Marine Corps (GCSS-MC) is the physical implementation of the enterprise Information Technology (IT) architecture designed to support both improved and enhanced Marine Air Ground Task Force (MAGTF) Combat Support Services (CSS) functions and MAGTF Commander and Combatant Commanders/Joint Task Force (CC/JTF) combat support information requirements. The initial program includes all transactional CSS systems related to Supply Chain Management (SCM) and Enterprise Asset Management (EAM) functionality enabled with Service Management functions. When combined, these capabilities are referred to as Logistics Chain Management (LCM) or GCSS-MC/LCM. The primary goal of GCSS-MC/LCM is to provide the capabilities specified in the Logistics Operational Architecture (Log OA). The result of enabling the Log OA is the retirement of legacy applications.

The GCSS-MC/LCM exposes timely mission information to Marine Corps operational and CSS commanders, CC/JTF commanders and their staffs and other authorized users. It exposes information interoperability and common logistics information applications and services across functional areas. GCSS-MC/LCM allows operating forces commanders to base decisions on complete logistics information and make decisions in concert with specific operational tasks. The GCSS-MC/LCM program is procuring capabilities by blocks. GCSS-MC/LCM Block 1 is a subset of the total requirement that focuses on Logistics Management and Execution with Logistics Command and Control requirements necessary to perform those functions in a deployed environment. GCSS-MC/LCM Block 1 is global in scope. It can be deployed under any circumstances, during peace or war, independent of geographical location. The GCSS-MC/LCM Block 1 Capability Development Document (CDD), dated 25 May 2005 and approved in December 2005, establishes the requirements for the entire GCSS-MC portfolio.

Key objectives of the CDD include the following: (1) Deliver integrated functionality across supply, maintenance, transportation, finance, engineering, health, acquisition and manpower systems in accordance with the Marine Corps Logistics Operational Architecture; (2) Provide timely information to Marine Corps operational and CSS commanders, CCs and JTF commanders and their staffs and other authorized users; (3) Allow Operating Forces (OPFORS) commanders to base decisions on complete logistics information and make decisions in concert with specific operational tasks; and (4) Provide users and operators of logistics processes access to information and applications across the spectrum of conflict regardless of location.

The GCSS-MC/LCM Block 1 program received Milestone (MS) A approval on 23 July 2004 from the Milestone Decision Authority, the Deputy Under Secretary of Defense (Networks and Information Integration). The GCSS-MC program was formally designated an Acquisition Category (ACAT) IAM program in March 2004. The GCSS-MC Program successfully completed a Milestone B Review for GCSS-MC/LCM Block 1 on 8 June 2007. The system's current Milestone Decision Authority (MDA) is the Under Secretary of Defense for Acquisition Technology and Logistics (USD AT&L). The GCSS-MC/LCM Block 1 program was re-baselined in December 2008. The program identified the likelihood of a critical change in the September 2008 Major Automated Information Systems (MAIS) MAIS Quarterly Report (MQR) due to the program breaching in the areas of cost, schedule and time to achieve Initial Operating Capability (IOC) within five years of MS A. A Critical Change Team (CCT) was formed and conducted an evaluation of the program. Based on CCT recommendations, the program re-baselined Block 1 cost and schedule and established a revised acquisition strategy.

The new approach provides for two major independent software releases (Enterprise (Release 1.1) and Deployed Access (Release 1.2)) within Block 1, each with its own IOC and Full Operating Capability (FOC). Combined, these two releases provide the full Block 1 solution capability. The GCSS-MC program is currently pre-MS C. The program will pursue a single MS C decision in November 2009 to authorize entry into limited deployment in support of Enterprise Release First Unit Equipped (FUE) testing and operational testing.

Exhibit P-40, Budget Item	Justification	Sheet		Date: May 2009
Appropriation / Budget Activity/Serial No:			P-1 Item Nomenclature:	· · · · · · · · · · · · · · · · · · ·
Procurement, Marine Corps (1109) / Communications and Electro	nics Equipmer	nt (4)		COMBAT SUPPORT SYSTEM
Program Elements:	Code:	Other Related	Program Elements:	
0206313M Marine Corps Communication Equipment	Α			
THEATER MEDICAL INFORMATION PROOF AM (TMIR)	and the second second	1 -1-411-	-t' l -l-t t	and the set One February Dettelling Aid Otation (DAO) Field

THEATER MEDICAL INFORMATION PROGRAM (TMIP) provides clinical data collection and data transport capability at Care Echelons; Battalion Aid Station (BAS), Field Hospital and In-Theater, Rear Area Hospital in a combat or hostile environment involving deployed forces. Medical data transport will be accommodated by collection of medical services data using a form of "electronic data carrier," IT and communications infrastructure, and computer hardware, including the Secure Internet Protocol Routing Network (SIPRNET) and secure Local Area Networks (LANs) within a Combatant Commander's Theater of Operations.

FLOODLIGHT SET UPGRADE will provide the Marine Corps with a light, compact, diesel engine, modern trailer mounted, telescopic rotatable floodlight. It will increase lighting capability and availability while decreasing the logistic footprint.

SHARED DATA ENVIRONMENT (SDE) is a component of the GCSS-MC. It will support data warehousing technologies and products to provide one-stop shopping for data supporting Combat Service Support Element SDE (CSSE/SDE) decision-making processes. It will stage CSSE/SDE data and integrate Decision Support Tools (DST) to enable Command and Control (C2), situational awareness, and total asset visibility at all levels of command, from the Combatant Commander to the Company Commander. The establishment of the CSSE/SDE will eliminate the need for individual applications to perform these tasks for themselves and will contribute to a more cost-effective, efficient application development environment. Supports hardware infrastructure to refresh hardware purchased in FY08 and FY09 in support of deployed MAGTF users of GCSS-MC capabilities.

MANPOWER OPERATIONS SYSTEMS (MOS) is a portfolio of enterprise information technology systems and modules that support manpower business operations for the Total Force (active and reserve). The investment in the portfolio improves dataflow and increases reliability, functionality, and accuracy of data while reducing the manpower required to operate and maintain these systems/operations. Development is partially driven by regulatory and policy changes mandated by Congress, Department of Defense (DOD), Department of the Navy (DON), and United States Marine Corps (USMC). The systems support all five-tiers of Manpower: Individual Marine; Small Unit Leader; Unit, Installation Personnel Administration Center (IPAC)/Disbursing Echelon; Headquarters Marine Corps (HQMC) Manpower; and Reserve Affairs (M&RA)/ Department of Finance Accounting Service (DFAS).

The MOS portfolio provides support in functional areas such as Permanent Change of Station (PCS) assignments, retention, mobilization, manpower planning, line of duty determination, personnel accountability, individual augmentation, personnel records management and maintenance, management of case incidents, civilian professional development planning, pay entitlement determinations, promotion and performance evaluations and self service/ visibility of personnel data. MOS interfaces with other systems to provide manpower data and web services functionality for pay and personnel transactions between systems.

Systems in the portfolio include Monitor Assignment Support System (MASS), Performance Evaluation System (PES), Total Force Retention System (TFRS), Operational Data Information- Records Management System (ODI-RMS), Class I/II/III (composed of Child and Spouse Abuse (CASA), Sexual Assault Incident Reporting Database (SAIRD) and Rape and Sexual Assault (RASA)), Marine Corps Medical Entitlements Data System (MCMEDS), Civilian Workforce Development Application (CWDA), and Manpower Mobilization Assignment System (MMAS). Additionally, the portfolio includes Total Force Administration System (TFAS) and it's associated modules, including Drill Management Module (DMM), Secure Personnel Accountability Module (SPAM), Case Management Module (CMM) and the Marine On-Line (MOL) portal. MOS procures IT hardware, software and fielding support to the systems in the MOS portfolio.

DEFENSE INTEGRATED MILITARY RESOURCES SYSTEM (DIMHRS) is a joint development and implementation of a single personnel and pay system that will support all Military personnel, active, guard, reserve, and retired, and their families through their entire careers and beyond. DIMHRS will transform military personnel and pay management processes. It will be the largest personnel and pay system in the world, in both scope and numbers of people served. DIMHRS will replace at least 79 legacy systems with redundant functions and varying architectures. It has been identified by the Under Secretary of Defense for Personnel and Readiness (USD(P&R)) as a major DOD initiative and as a precedent setting success in business process reengineering.

Exhibit P-40, Budget Item	Justification Chast		Date:
<u> </u>	Justification Sneet		May 2009
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electro	nics Equipment (4)	P-1 Item Nomenclature:	COMBAT SUPPORT SYSTEM
Program Elements:		ited Program Elements:	
0206313M Marine Corps Communication Equipment	A		
and handling of combat service support and base support of Frequency Identification Devices (RFID) tags, as well as ha information with other logistics data. Additionally, AIT incluates few characters to thousands of bytes. The information o	data. These technological ardware and software reduced the use of satellite in each device can rangency (RF) with the information.	es include barcodes, magner equired to create the storage is to track and redirect shipment ge from a single part number mation obtained from those i	orage technologies that are used to improve the accuracy, timeliness etic stripes, integrated circuit cards, optical memory cards, Radio e devices, read the information stored on them and integrate that nents. AIT devices offer a wide range of data storage capacities from r to a self-contained database. The device can be interrogated using interrogations provided electronically to Automated Information
effort of the legacy Manpower Models, the Total Force Man active and reserve modeling of accession, recruiting, trainir the technical solution for process improvement and will stra	npower Models Re-enging, classification, retentategically align manpow	neering effort (TFMMR). Thi ion, promotion, mobilization, er systems/functional proces	dels, the Total Force Data Warehouse (TFDW), and the replacement his portfolio provides the tools and data to support the creation of , distribution, and assignment plans. The funding in MPS will provide ass with the Command, Control, Communications and Computers (C4 anning efforts. MPS will procure IT hardware to support the systems
of Organization and Equipment. TFSMS defines present a requirements and allocation and enables Marine Corps con representation by providing the Marine Corps Global Force	nd future Marine Corps npliance with the Joint Management Organizare for the developmen	force structure, establishes Staff and Office of the Secret ational Server. TFSMS is a v of standard and ad-hoc que	urce for force structure data and provider of the Marine Corps' Tables the Marine Corps baseline for readiness reporting, justifies resource etary of Defense (OSD) initiative to standardize force structure web-based system built on the Oracle E-Business suite and eries. Hardware procurements for disaster recovery/continuity of usion are planned.
LIGHTWEIGHT MAINTENANCE ENCLOSURE (LME) is the Classified - Standard by SBCCOM, received a Full Material			and tracked vehicles in a field environment. The LME was Type oviding the tents to the Army since 1999.

BLI No. 461700

Exhibit P-40a, Budget Item	Justificatio	n for Aggre	egated Items				Date:	May 2009		
Appropriation / Budget Activity Procurement, Marine Corps (1109) / Communication	ns and Elec	tronics Equ	ipment (4)		P-1 Item No	menclature:	COMBAT SUPPOR			
Procurement Items	Code	UOM	Prior Years	FY 2008	FY 2009	FY 2010	FY2010 OCO			
Floodlight Set Upgrade	А	D Q	4.020	1.209	4.276	0.000	0.462			
		Q								
Theater Medical Information Program (TMIP)	A	D	3.184	1.305	0.126	0.137	0.000			
Theater Modela Michigan (1997)	,,	Q	0.101	1.000	0.120	0.101	0.000			
Manpower Operations Systems (MOS)	Α	D Q	1.576	1.248	0.767	0.841	0.000			
		Ų								
Defense Integrated Military Human Resources System	A	D	0.000	0.240	0.100	0.001	0.000			
(DIMHRS)	Α	Q	0.000	0.240	0.100	0.001	0.000			
Manpower Planning Systems (MPS)	Α	D	0.199	0.245	0.287	0.288	0.000			
		Q								
Total Force Structure Management Systems (TFSMS)	۸	D	0.000	0.000	0.000	0.000	0.000			
Total Force Structure Management Systems (TFSMS)	A	Q	0.000	0.000	0.000	0.000	0.000			
Shared Data Environment (SDE)	Α	D	0.798	1.428	0.000	0.000	0.000			
		Q								
Lightweight Meintenance Englagure (LME)	^	-	0.000	1.000	0.000	0.000	0.000			
Lightweight Maintenance Enclosure (LME)	A	D Q	0.000	1.600	0.000	0.000	0.000			
								+		
Totals			9.777	7.275	5.556	1.267	0.462			

Exhibit P-5 Cost Analysis	Procure	riation/ Budç ement, Marir nic Equipme	e Corps (11		unications a	ınd		M Nomencl		Weapon Sy	stem Type:	Date:	May 2009	
		Prior Yrs	. ,	FY08			FY09			FY10			FY10 OCO)
Weapon System Cost Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
GLOBAL COMBAT SUPPORT SYSTEM-MARINE CORPS (GCSS-MC): LOGISTICS CHAIN MANAGEMENT Hardware Software Operations Planning/Preparation/Testing Systems Installation Systems Training Specialized Hardware (Secret And Below Information (SABI) Guard LOGISTICS COMMAND AND CONTROL SYS	A	10338 6750 800 4393 1589 2500	7738	VAR	VAR	5844 2,267 955 597 9357	VAR VAR VAR	VAR VAR	2951 245 200 239 970	VAR VAR VAR				
Systems Training Systems Installation GCSS TOTAL		500 500 27370	7738			19020			4605			0		
AUTOMATIC INFORMATION TECHNOLOGY (AIT): Software Licenses (Enterprise Non- Oracle) Hardware Equipment (Non- NMCI) Software AIT TOTAL	A	1881 2537 2205 6623	450 8431 4139 13020	VAR VAR	VAR VAR		VAR VAR	VAR VAR	625 4871 0 5496	VAR VAR		0		
ACTIVE RESERVE RESERVE QUANTITIES	D	33993	20758			31452			10101			0		

						Date:				
	Exhibit P-40, Bu	idget Item J	ustification	Sheet		May 2	2009			
Appropriation / Budget Activit	ty/Serial No:			P-1 Item Nom	enclature:					
Procurement, Marine Corps ((1109) / Communications and E	lectronics Equip	ment (4)				Modifica	ation Kits		
Program Elements:		Code:	Other Related	Program Elem	ents:					
0206313M Marine Corps	Communication Equipment	Α								
	Prior Years	FY 2008	FY 2009	FY2010	FY 2010 OCO	FY2010 Total				
Proc Qty										
Gross Cost	145.0	47.5	0.0	0.0	0.0	0.0				
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc (P-1)	145.0	47.5	0.0	0.0	0.0	0.0				
Initial Spares	8.5	0.0	0.0	0.0	0.0	0.0				
Total Proc Cost	153.5	47.5	0.0	0.0	0.0	0.0				
Flyaway U/C							·			
Wpn Sys Proc U/C										

Modifications under this line are for the purpose of correcting equipment deficiencies noted after new items are fielded, or to increase operational capabilities of end items previously fielded. The funding profile supports modifications to the following intelligence systems. All items are Code A.

Intelligence Analysis System Mod (IAS MOD)

Joint Surveillance Target Attack Radar System (JSTARS)

Technical Control & Analysis Center Program Improvement Plan (TCAC-PIP)

Intelligence Equipment Readiness (IER)

Communication Emitter Sensing Attack System (CESAS)

Tactical Concealed Video System (TCVS)

Note: This BLI transfers to BLI 4747 Intelligence Support Equipment starting in FY 09.

		Date:	
Exhibit P-40, Budget Item Justification S	Sheet		May 2009
Appropriation / Budget Activity/Serial No:	P-1 Item Nomenclature:		
Procurement, Marine Corps (1109) / Communications and Electronics Equipment (4)			Modification Kits

Communication Emitter Sensing and Attacking System (CESAS) - The AN/ULQ-30 CESAS is an advanced Electronic Attack (EA) system that can be mounted in a variety of platforms including High Mobility Multi-Purpose Wheeled Vehicles (HMMWV), waterborne platforms, helipcopters, and the MV-22. The system provides Marine Air-Ground Task Forces (MAGTFs) with the capability to detect, disrupt and deny enemy radio communications during amphibious assaultsand subsequent operations ashore. The system is being integrated into existing armored vehicle assets, currently M1165s and into an MRAP vehicle by FY10.

Intelligence Analysis System Mod Kits - IAS Family Of Systems (FoS) provides intelligence support to Marines garrison, shipboard, and battlefied missions at all levels of the MAGTF. This support includes the formulation and/or compliation of the commander's Priority Intelligence Requirements (PIR), Essential Elements of Information (EEI), and Other Intelligence Requirements (OIR); contingency planning; management of MAGTF collection assets; all-source intelligence analysis, briefing support, intelligence product fusion, production, reporting dissemination and training. The IAS FoS has proven to be the All-Source Fusion Center that provides interoperable scalable, semi-automated capabilities to receive, process, analyze, display and disseminate all-source intelligence, including imagery, to support timely tactical decision-making across MAGTF.

Intelligence Equipment Readiness (IER) - The IER provides a responsive capability to alleviate Marine Corps intelligence systems shortfalls created by the rapidly evolving missions, threats and command relationships associated with the Global War on Terrorism (GWOT) and 21st Century expeditionary military operations. IER provides for rapid technology insertion, as well as quick reaction training and logistics, to meeting the time sensitive intelligence infrastructure requirements of Marine Corps Operating Forces and the theater and service intelligence organizations supporting those forces. IER rapidly mitigates intelligence infrastructure shortfalls through exploitation of COTS, GOTS and Non-Developmental Item technology to the greatest extent practical. IER also centralizes support for Marine Corps intelligence infrastructure items and systems that are not separately identified within the program funding lines. IER provides the capability to address requirements that span across the entire Marine Coprs intelligence systems architecture.

Joint Surveillance Target Attack Radar System (JSTARS) - The JSTARS is a long-range, air-to-ground surveillance system, composed of an airborne element and a ground element. The airborne element, the E-8C aircraft contains a large phased array radar on the fuselage and multiple OZ-63 Air Data terminal (ADT) operator terminals. Radar data is distruted via an encrypted, jam-resistant Surveillance and Control Data Link (SCDL) for transmission to one of two JSTARS ground systems; the Common Groung Station or Joint Surveillance Work Station.(CGS/JSWS) The sensor suite provides detection and tracking dta on targets through the use of the Moving Target Indicator (MTI), Fixed Target Indicator (FTI), Synthetic Aperture Radar (SAR) and Umanned Aerial Vehicle (UAV). FTI and MTI data detect, locate and identify the movement of enemy targets, while SAR identifies critical fixed targets such as bridges, harbors, airports, buildings or stoped vehicles. The CGS is aground received and processed displaying system and receives JSTARS data directly from the E-8C JSTARS aircraft throughthe SCDL to the Gound Data Terminal (GDT). Once JSTARS data is collected at the ground receive site, MTI/FIT/SAR data wil be sent acrosss the Marine Air Ground Task Force (MAGTF) Command Control Communications Computes and Intelligence (C4I) network through existing and evolving tactical data networks. The CGS is also capable of receiving and fusing imagery data from Unmanned Aerial Vehicles UAVs directly onto JSTARS data, providing an enhanced collection processing capability. The JSWS is a functionally equlivalent, transit cased subset of the CGS. The JSWS can be used in conjunction with a dedicated SCDL, but typically gets its JSTARS data via a Secret Internet Protocol Router Network (SIPRNET) connection or a Satelite Communications (SATCOM) feed.

Exhibit P-40, Budget Item Justification		Date: May 2009
Appropriation / Budget Activity/Serial No:	P-1 Item Nomenclature:	IVICIY 2000
Procurement, Marine Corps (1109) / Communications and Electronics Equipment (4)		Modification Kits
Technical Control and Analysis Center (TCAC) - consisting of the (MLS) and OneRoof system is the focal point of Radio Battalions Signal analysis and reporting functions of the RadBn in order to fulfill its missis combat operations. The TCAC is capable of directing and managing to communications connectivity for data exchange with these systems, the processing of EW information, including (Electronic Warfare Support (I Warfare Squadrons (VMAQ EA-6B) aircraft. The system is capable of EA-6B with other National and theater sources.	als Intelligence (RadBn S ion of providing timely, ac the technical and operatio ne Intelligence Analysis S ES) and Electronic Attack	CIGINT) operations. The TCAC provides automated processing, courate Signals support to Marine Air-Ground Task Force (MAGTF) and functions of other RadBn SIGINT/EW assets and providing system (IAS) and National databases. The system provides ground at (EA) data collected by the Radio Battalion & Tactical Electronic
Tactical Concealed Video System (TCVS) is a rapidly employable, of TCVS is used to conduct remote video surveillance and monitoring of operated allowing for ease of setup and operation. TCVS has a low positive to the conduct remote video surveillance and monitoring of operated allowing for ease of setup and operation.	areas of interest on the b	attlefield. TCVS networked devices are remotely managed and

Exhibit P-40a, Budget Iter	n Just	ificatio	n for Aggre	egated Iter	ns		Date:		May 2009	
Appropriation / Budget Activity Procurement, Marine Corps (1109) / Communications	and Elec	tronic Ed	quipment (4)		P-1 Item No	menclature:	N	odification K	lits	
Procurement Items	Code	UOM	Prior Years (\$M)	FY 2008 (\$M)	FY 2009 (\$M)	FY 2010 (\$M)	FY2010 OCO			
Tactical Concealed Video System (TCVS)	А	D Q	0.000	0.400 0						
Totals			0.000	0.400	0.000	0.000				
Active Reserves			0.000 0.000	0.400 0.000	0.000	0.000				

Exhibit P-5 Cost Analysis		Procurement	n/ Budget Acti t, Marine Corp Equipment (4)	os (1109)		ations and			n Nomenclatu tion Kits (465		Weapon Sy	stem Type:	Date: Ma	y 2009
Weapon System	ID	Prior Yrs		FY 08			FY 09			FY 10			FY10 OCC	
Cost Elements	CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	TotalCost \$000
CESAS														
Platform/System Integrator Kit		3389	2988	6	498015									
AN/ULQ-30 - Training Simulator		1206 1300	3692 400	6 Var	615494 Var									
- Training Simulator Lightweight Composite Armor Shelter		1300	400	var	var									
Integrated Logistics Support		316	462											
- Technical Documentation		0.0	327											
- Program Management		1000	1267											
Fielding/Training Ballistic Helmet Hardtop Shelters		50 425	1427											
Wave Driver Antennas		720												
IAS Family of Systems (FOS)														
- Multilevel Security (Hardware)		2800												
- IOS Refresh (IOSv2A)		1620	1818	33	55080									
- IOS Refresh (IOSv3)		320	640	20	32000									
- Software Refresh - MEF IAS Refresh		2802 14400	4757 3200	Var Var	Var Var									
Technical Support		1360	3541	vai	Vai									
Program Support		2565	1330											
Biometric Automated Tool Kit		3000												
JSTARS		4235												
JSWS/Radio Access			31	2	15527									
JSWS MOD B KIT			629	2	314500									
JSWS/CGS Components			180	Var	Var									
Management Support			520											
CGS/JSWS S/W Licenses			72	Var	Var									
Field Support			177											
SCDL Depot Support			388											
Program Support			4289											
TOTAL		42708	32135											
ACTIVE*		42708	32135											
RESERVES*														

Exhibit P-5 Cost Analysis		Procureme Communic	on/ Budget nt, Marine (ations and E	Corps (1 Electron		ent (4)		ne Item Nom Modification		·	on System T			ay 2009
Weapon System	ID	Prior Yrs		FY 08			FY 09			FY 10			Y10 OC	
Cost Elements	CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	TotalCost \$000
Intelligence Equipment Readiness - Various Comm Equipment - Various IER Equipment - Digital Basic Cameras - Camera Digitial - Video Exploitation Workstation - CATEIS (Software) Integrated Logistic Support - Technical Documentation - Program Management TCAC Remote Workstation (RAWS)		9056 2600 3186 3600 1380 640 323	375 2253	Var Var	Var Var	φυσο	Lauli		φοσο	Lauli		φοσο	Laui	φοσο
Transportable Workstation OneRoof MLS Hardware Refresh Software Licenses Technical Documentation Program Support		4000 1000 1500 35 969	1215 4000 604 666	27 Var	45000 Var									
TOTAL ACTIVE* RESERVES*		29734 29734 0	14941 14941 0											

	Exhibit P-5a, Budget Procurer	ment His	tory and Planning					Date:	May 200	9
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Comm	nunications and Electronics Equipment (4)	Weapon S	System Type:		P-1 Line I	tem Nome	nclature: Modification		,	
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method & Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issue Date
<u>CESAS</u> FY08 Platform Sys Int Kit FY08 AN/ULQ-30	SRC, Charleston, SC Rockwell Collins, Cedar Rapids IA		MCSC MCSC	Dec-07 Dec-07	Aug-08 Aug-08	6 6			N/A N/A	N/A N/A
IAS FY08 IOS Refresh (IOSv2A) FY08 IOS Refresh (IOSv3) FY08 IOS Refresh (IOSv2A) FY08 IOS Refresh (IOSv3)	VARIOUS VARIOUS VARIOUS VARIOUS	FFP	SPAWAR, Charleston, SC SPAWAR, Charleston, SC SPAWAR, Charleston, SC SPAWAR, Charleston, SC	Dec-07 Dec-07 Nov-08 Nov-08	Apr-08 Apr-08 Mar-09 Mar-09	5 8 28 12	55080 32000 55080 32000	Yes	N/A N/A N/A N/A	N/A N/A N/A
<u>JSTARS</u> FY08 JSWS Radio/Accessories FY08 JSWS Mod B Kits	MCSC, Quantico Tobyhanna, PA		MCSC, Quantico CECOM, Tobyhanna, PA	Aug-08 Jun-08	Sep-08 Oct-08	2	15527 314500	Yes Yes	N/A N/A	N/A N/A
TCAC FY08 Remote Workstation (RAWS) FY08 OneRoof	NAWCWD NSA		Point Mugu, CA Fort Meade, MD	Dec-07 Dec-07	Jul-08 May-08	43 27	60000 45000		N/A N/A	N/A N/A
REMARKS:										

	EXHIBIT F	P-21, F	ROI	DUCT	ION	IS	CHE	DUI	LE											Date		lay 2	2009)							
Appropriation Code/CC/BA/BSA/Item Cont Procurement, Marine Corps (1109)/Com		Electro	nics E	auipme	ent(4		Wea	pon :	Syste	em				P-1	ltem	Nom	encl	atu	re:		М	odifi	catio	on k	(its						
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AN/USQ-30	ROCKWELL (COLLIN	S (INI	TIAL)			,	3	(6		9				2	2			8						1	0		Е		
PLATFORM/SYSTEM INTEGRATOR KIT	SRC, CHARL	ESTON	SC				;	3	(6		9			\blacksquare	2	2	-		8						1	0		Е		
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Appropriation Code/CC/BA/BSA/It Procurement, Marine Corps (1109		ns & Elec	etronics	s Equip	ment(4	1)	Wea	apon	Syst	em				P-1 l	Item	Nom	encla	ture:				Modi	ficatio	on Ki	ts				-		
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IOS Refresh (IOSv3)		FY08		8	0	8			Α				8																		0
IOS Refresh (IOSv2A)		FY08		28	0	28														Α				8	8	8	4				0
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TCAC - One Roof	NSA						1	15	2	25	3	5					2			5							7		EACH	Н	
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	Exh	ibit P-40, Budget I	tem Justifi	cation Shee	et		Date:		May 2009	
Appropriation / Budget A	Activity/Serial No:				P-1 Item Nome	enclature:				
Procurement, Marine Co	orps (1109) / Communi	ications and Electronics	Equipment (4)				ITEMS U	NDER \$5M (CC	MM & ELEC)	
Program Elements:			Code:	Other Related	Program Elem	ents:				
0206313M Mar	ine Corps Communica	tion Equipment	Α							
	Prior Years	FY 2008	FY 2009	FY 2010	FY10 OCO	FY10 Total				
Proc Qty										
Gross Cost	72.2	7.2	11.9	3.5	4.2	7.7				
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc (P-1)	72.2	7.2	11.9	3.5	4.2	7.7				
Initial Spares	0.5									
Total Proc Cost	72.7	7.2	11.9	3.5	4.2	7.7				
Flyaway U/C										
Wpn Sys Proc U/C										

Public Affairs Equipment: Provides equipment to Fleet Marine Force (FMF) Public Affairs (PA) elements for dedicated audiovisual equipment to support national security strategy, the Department of Defense (DOD), Unified Command, and Marine Corps objectives in all circumstances to include peacetime, training, and contingencies.

Combat Camera Systems: Provides equipment to Fleet Marine Force (FMF) Combat Camera Units and training commands. This is imagery acquisition/production equipment used for the collection, editing and dissemination of imagery for use by any Combat Camera customer to include DOD, Joint and Marine forces. This program standardizes equipment/systems and replaces worn out, unserviceable or obsolete acquisition/production equipment. Procurements are centrally managed and are non-developmental, Commercial/Government Off-the-Shelf (COTS/GOTS).

Command Support Equipment: Provides equipment to Fleet Marine Force (FMF) Public Affairs (PA) elements for dedicated audiovisual equipment to support national security strategy, the Department of Defense (DOD), Unified Command and Marine Corps objectives in all circumstances to include peacetime, training and contingencies. This line includes funds to provide for the initial outfitting of new construction and selected major HQMC I&L (Facilities) sponsored Facilities Sustainment, Restoration and Modernization (FSRM) projects. This one time first provisioning of CE, includes assets which are loose, portable, or can be detached from the structure.

Audio Visual and Telecommunication: Provides for the initial outfitting of new construction and selected major HQMC I&L (Facilities) sponsored Facilities Sustainment, Restoration and Modernization (FSRM) projects. This one time first provisioning of CE, includes assets which are loose, portable, or can be detached from the structure. Funds equipment items costing equal to or greater than \$250K.

General Purpose Tool, Sets, Chests & Kits (TS&K): Buys tools to support all types of Marine Corps ground equipment. The program includes over 40 different types of individual mechanic or technician tool kits as well as the larger, mobile or deployable, organizational tool sets.

Marine Corps Expeditionary Shelter System: EMI Maintenance Shelter is a part of the Marine Corps Field Logistics System (MCFLS). This system of support equipment provides for use of standardized shelters which are easily erected, relocated, compatible with current Marine Corps transportation modes, require minimum maintenance, and will protect equipment and functions needed to support Fleet Marine Force (FMF) operations. This shelter presents the unique variation of one 20-foot EMI/EMC shelter and three 10-foot Rigid/EMC shelters being used for special purposes. Each shelter is configured to support its mission. Many of the current communication systems being fielded today require a climate controlled environment in order to perform the required corrective maintenance. These old shelters must be replaced in order to ensure continued support current and future inventory of Electronic Communication Systems.

Exhibit P-40, Budget Item Justification Sheet		Date: May 2009
Appropriation / Budget Activity/Serial No:	P-1 Item Nomenclature:	
Procurement, Marine Corps (1109) / Communications and Electronics Equipment (4)		ITEMS UNDER \$5M (COMM & ELEC)
The Multi-Purpose Bayonet: The military issue bayonet carried by the Marines in the war fighters' lethality and survivability on the battlefield by providing a combination		
Family of Combat Field Feeding System : Consists of those items used to store, while maintaining force protection through distributed operations and sanitation cap		serve combat rations in a non-garrison environment

Exhibit P-40a, Budget Item Justific	ation	for Ag	gregated Item	ıs		Date:		May 2009
Appropriation / Budget Activity Procurement, Marine Corps (1109) / Communications and	Electro	nics Equ	uipment (4)	P-1 Item No	menclature:		ITEMS	UNDER \$5M (COMM & ELEC)
Procurement Items	Code	UOM	Prior Years	FY 2008	FY 2009	FY 2010	FY10 OCO	
Public Affairs Equipment	Α	D	1.947	0.521	0.334	0.339	0.286	
		Q	Var	Var	Var	Var	Var	
Command Support Equipment	A	D		3.017	0.061			
		Q		Var	Var			
Tools, Sets and Kits	A	D		0.820	1.132		0.154	
		Q		Var	VAR		Var	
Combat Camera Equipment/Visual Information Systems	A	D	12.546	2.803	3.950	2.483		
Sombat Camera Equipment violati information Gyoonio		Q	Var	Var	Var	Var		
Audio Visual and Telecommunications	A	D			5.626	0.709		
Additional and Total American		Q			Var	Var		
Family of Combat Feeding System	A	D			0.085	_	0.033	
Taminy of Compact Cecuring Cyclem					Var	•	Var	
Multi-purpose Bayonet	A	D					0.027	
ividiti-purpose Bayonet		Q					Var	
EMI Maintenance Shelter	Α	D			0.727		3.653	
		Q			VAR		Var	
Tota	S		14.493	7.161	11.915	3.531	4.153	

	E	xhibit P-40, Budget I	tem Justifica	tion Sheet			Date:		May 2009	
Appropriation / Budge	t Activity/Serial No:				P-1 Item Nomen	clature:				
Procurem	ent, Marine Corps (11	09)/Communications and	d Electronics Ed	quip (4)			AIR OPER	RATIONS C2 S	YSTEMS	
Program Elements:			Code:	Other Related P	rogram Elements:					
0206313M Tactical Ai	r Control Systems (Ma	rine Corps)	Α							
	Prior Years*	FY 2008	FY 2009	FY 2010	FY 2010 OCO	FY 2010 TOTAL				
Proc Qty										
Gross Cost	105.7	135.5	39.6	45.1	3.1	48.2				
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc (P-1)	105.7	135.5	39.6	45.1	3.1	48.2				
Initial Spares	6.5	0.0	0.0	0.0	0.0	0.0				
Total Proc Cost	112.2	135.5	39.6	45.1	3.1	48.2				
Flyaway U/C										
Wpn Sys Proc U/C										

Marine Air Command and Control (MACCS) Sustainment - Consists of various command and control units designed to provide the Aviation Combat Element (ACE) commander with the ability to monitor, supervise and influence the application of Marine aviation assets in support of Marine Air Ground Task Force MAGTF operations. The MACCS Sustainment program provides the capability to keep these Aviation Combat Elements ready, relevant and capable until their functions are replaced by the Common Aviation Command and Control System (CAC2S). The supported MACCS systems were to have been replaced by CAC2S beginning in FY09. The funding procures replacement hardware to aid in the service life extension and supportability of specified MACCS systems. Provide refresh of MACCS systems one MEF at a time, one MEF per year.

Theater Battle Management Core System (TBMCS) - Joint mandated Air War planning tool for the generation, dissemination and execution of the Air Tasking Order (ATO). TBMCS is an Air Force lead program, which provides the automated tools necessary to manage tactical air operations, execute area air defense and airspace management in the tactical area of operation, and coordinate operations with components of other military services. TBMCS is located at the Tactical Air Command Center (TACC), with remotes located throughout the Marine Air Ground Task Force (MAGTF). It is scaleable, allowing for joint, coalition and service specific operations. It is an evolutionary acquisition program. Funds are for New Equipment training and On-Site fielding reps to support updated software and hardware fieldings, and to procure new hardware for TBMCS to leverage new technology and maintain relevance and capability.

Battlefield Target Identification Device (BTID) - Consists of an interrogator antenna, transponder antenna, RF receiver, and processor. There are three variants which include 1) Combined Interrogator/Transponder (I/T) for USMC Shooting platforms (LAV-25, M1A1 Tanks, and EFV); 2)Transponder only (T-only) for other tactical vehicles; 3) Interrogator only (I-only) for Javelin, Anti-Tank Guided Missiles (ATGMs), Target Location Designation Handoff System TLDHS, and UAVs. BTID will improve operational capabilities/effectiveness. It will discriminate between friendly and potential hostile platforms, through battlefield obscurants at ranges in excess of 6 KM in less than 1 second. It also decreases fratricide incidents, increases the range at which targets may be engaged without fear of misidentification, and enhances Situational Awareness (SA) by providing redundant Blue Force Tracking and alternative means of tactical communications.

Exhibit P-40, Budget Item Justification Sheet		Date: May 2009
Appropriation / Budget Activity/Serial No:	P-1 Item Nomenclature:	
Procurement, Marine Corps (1109)/Communications and Electronics Equip (4)		AIR OPERATIONS C2 SYSTEMS

Composite Tracking Network (CTN) - The 12 April 1995 Mission Need Statement (MNS) NO.AAS 48 for the Common Aviation Command and Control System (CAC2S) established the Marine Corps' need to upgrade its existing air defense architecture with capabilities to support improved situational awareness (SA) and advanced engagement concepts. The Composite Tracking Network (CTN) Program was initiated to address this capability. The CTN system (AN/MSQ-143) is an integration effort consisting of an AN/USG-4A and other Marine-unique components. All Marine-unique components are Government Furnished Equipment (GFE) with the exception of the shelter and mast. The Marine Corps unique components include: Vehicle - M1152A-1 (GFE Marine Corps Systems Command (MCSC), Trailer - M102 LTT-MCC (GFE MCSC), 1 OKW Generator - MEP 803 (GFE MCSC), Tactical Radio - AN/MRC103 (GFE MCSC), Global Positioning System - DAGR (GFE MCSC), Environmental Control Unit - BOO03 (GFE MCSC), Shelter - S788 (commercial off-the-shelf (COTS) NSWC Crane), and Antenna Mast - TEAMS EXL 195/26-5.4 (COTS NSWC Crane).

The CTN system will interface with the CAC2S and the AN/TPS-59 radar to provide the Marine Air-Ground Task Force (MAGTF) and Joint Task Force Commanders a ground-based sensor netting solution that correlates sensor measurement data (target velocity and position) from local and remote radars that interface in the CEC network. This data will effectively increase Situational Awareness by providing accurate, composite, real-time surveillance tracks. Future interfaces with CTN will include the Ground/Air Task Oriented Radar (GATOR). In FY 10, the Program Office will produce 9 systems and procure Crypto Modernization as part of the AN/USG-4A Engineering Change Proposal.

TIER I - The TIER I program procures a capability for unmanned aircraft systems (UAS) to provide the company/detachment level with airborne reconnaissance to aid in detecting. identifying and engaging or avoiding enemy units. The UAS autonomously gather and transmit imagery of the tactical situation in near-real time at a range of up to ten kilometers. The Dragon Eye (DE) UAS was selected as the material solution for the SURSS Block 0 requirement. DE is a four pound, bungee launched, reusable vehicle with a wing span of 36 inches. The air vehicle flies at an altitude of 300-500 feet above ground at a speed of approximately 35 knots. The system has a maximum mission duration of 60 minutes. DE's interchangeable payloads, autopilot and propulsion system are commercial-off-the-shelf (COTS) subsystems. The Ground Control Station (GCS) uses a rugged COTS laptop computer connected to a communication control box. A SURSS Block 0 system is composed of three Dragon Eye air vehicles, one GCS and one Field Support Kit (FSK). The FSK contains consumable items used during the operations and maintenance. The Block 0 assets have had a high wash out rate in theatre. The Raven B UAS was selected as the material solution for the SURSS Block 1 requirement. Raven B is a five pound, hand launched, reusable vehicle with a wing span of 55 inches. As with the DE System, the air vehicle flies at an altitude of 300-500 feet above ground at a speed of approximately 35 knots. This system has a maximum duration of 90 minutes. Rayen B's interchangeable payloads, autopilot and propulsion system are also commercial-offthe shelf (COTS) subsystems. The Ground Control Station (GCS) uses a rugged hand controller connected to a communication control box. A SURSS Block 1 system consists of three Raven B air vehicles; one GCS; one Reconnaissance, Surveillance, and Target Acquisition (RSTA) Kit; one Field Repair Kit (FRK); and one Initial Spares Package (ISP). The RSTA kit is used for mission planning, autonomous flight operations and mission product archiving. The FRK contains consumable items used during operations and maintenance. The ISP contains system spares used during operations and maintenance. Raven B is a joint US ARMY/USSOCOM Program. Funds will be allocated to replace the previously fielded SURSS, Block 0 which are reaching the limit of operational life and provided initial issue spares. FY07 and prior funding for SURSS is found in BLI 4747. FY08 funding resides in BLI 4640. FY09 funding resides in BLI 4747. FY10 resides in BLI 4757. In FY10, the Program Office expects to procure the balance of SURSS Block I (Raven B) systems and commence defielding all DE block 0 systems.

Family of Shelters and Shelter Equipment - The rigid/electronics maintenance complex shelter provides a standard, portable, compatible shelter which, by virtue of its inherent design, conforms to Marine Corps transportability and supportability requirement. This shelter can be utilized individually or with a joining corridor to establish various shelter configurations which provide environmental protection for personnel and equipment located within the shelter.

Exhibit P-40, Budget Item Justification Sheet		Date:
Exhibit F-40, Budget item Justinication Sheet		May 2009
Appropriation / Budget Activity/Serial No:	P-1 Item Nomenclature:	
Procurement, Marine Corps (1109)/Communications and Electronics Equip (4)		AIR OPERATIONS C2 SYSTEMS

Mobile Optical Sensor Suite (MOSS) - MOSS provides visual identification of aircraft in an area which is defended by multiple sensors and anti-aircraft weapons. The MOSS will take tracks from the counter air radars, and cue the cameras to an aircraft track of interest, provide to a command post a visual range of that target of interest from any of the cameras in a position to view the target.

Common Aviation Command and Control System (CAC2S) - The Common Aviation Command and Control System (CAC2S) is a coordinated modernization effort to replace the existing aviation command and control equipment of the Marine Air Command and Control System (MACCS) and to provide the Aviation Combat Element with the necessary hardware, software, equipment, and facilities to effectively command, control, and coordinate aviation operations. The CAC2S system will accomplish the MACCS missions with a suite of operationally scalable modules to support the Marine Air Ground Task Force (MAGTF), Joint, and Coalition Forces. The CAC2S integrates the functions of aviation command and control into an interoperable system that will support the core competencies of all Marine Corps warfighting concepts. The CAC2S, in conjunction with MACCS organic sensors and weapons systems, supports the tenets of Expeditionary Maneuver Warfare and fosters joint interoperability. CAC2S Increment I will replace legacy aviation command and control systems in the following Marine aviation agencies:

Direct Air Support Center (DASC), Tactical Air Command Center (TACC), and Tactical Air Operations Center (TAOC). Future increments encompassing Marine Air Traffic Control Detachment (MATCD), Low Altitude Air Defense Battalion (LAAD BN), Unmanned Aerial Systems (UAS), and airborne node capabilities are anticipated but are not yet baselined. CAC2S consists of four variants. Variant 1 (V1) will consist of 1 PDS Capset III, 1 SDS, and 2 CS/MRQ-12's. Total V1 quantity is 4. Variant 2 (V2) will consist of 1 PDS Capset III, and 1 CS/MRQ-12's. Total V4 quantity is 19. Variant 3 (V3) will consist of 1 PDS Capset III and 1 CS/MRQ-12's. Total V4 quantity is 11.

Remote Video Viewing Terminal (RVVT) - Remote Video Viewing Terminal (RVVT) - Provides the warfighter with video connectivity to multiple types of aerial platforms (Pioneer, Dragon Eye, Raven B, Shadow, Predator, Fire Scout, and Litening Pod on P-3, AV8-B, and F/A-18). Data is displayed to Regimental Combat Teams and Forward Air Controller operators who coordinate with higher headquarters for fires. This is a New Start for FY10. Program Office is pursuing an AAP designation with MS B in FY10.

Exhibit P-40a, Budget	ltem J	lustificatio	n for Ag	gregated It	ems		Ма	y 2009			
Appropriation / Budget Activity Procurement, Marine Corps (1109)/Communicat	ions ar	nd Electronic	cs Equip (4)	P-1 Item Nom	enclature:	AIR OPERA		SYSTEM	IS	
Procurement Items	Code	Prior Years	FY 2008	FY 2009	FY 2010	FY2010 OCO					
Family of Shelters and Shelter Equip	Α	0.0	0.6	0.0	0.0	0.0					
Joint Combat ID Marking System	Α	0.0	0.0	1.1	0.0	0.0					
Various Cmd Post Sys/Cong-Mobile Optical Sensor Suite	Α	0.0	3.2	0.0	0.0	0.0					
MACCS VEHICLE MOUNTED BATTERY CHARGER	A	0.0	0.0	0.0	0.0	0.01					
	Q										
MACCS COMM SUBSYSTEM	Α	0.0	0.0	0.0	0.0	0.06					
TIER I RAVEN B	Α	0.0	0.0	0.0	0.0	3.0					
	Q					20.0					
Total		0.0	3.8	1.1	0.0	3.1					
Active		0.0	3.8	1.1	0.0						
Reserve		0.0	0.0	0.0	0.0	0.0					

Exhibit P-5		Appropriation/ Bu Procurement, Ma	_	y/Serial No:	P-1 Line Ite	m Nomencl	ature:	Weapon Sy	stem Type:				Date:	
Cost Analysis		(1109)/Communi Equipment (4)		Electronics		MACCS			AIR OPER	ATIONS C2	SYSTEMS		May	2009
		Prior Yrs		FY08			FY09			FY10			FY10 OCO	
Weapon System Cost Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
MACCS SUSTAINMENT (Air Ops C2 Sys/Cmoss) Production		16100												
Hardware Refresh		16100												
Multi Channel Interface Unit		35												
Sector Anti Air War Facility Recorder		61												
Themis Faceplates		170												
Air Def Comms Platform COTS Refresh		170												
ADCP BLOS Procurement		745												
MCCES Data Set Terminal Laptops		12												
modeo Bata out rominar Euptopo		12												
CDLS COTS Refresh (Active)									2447	6	407857			
CDLS COTS Refresh (Reserves)									408	1	407857			
Comm Data Link System (CDLS) CBT for SunAir		100							.00					
Automor/Dadia Containment			0075											
Antenna/Radio Sustainment COTS Sustainment			6875	VAR	VAR		40	4 4000	500	45	40007			
JTIDS/JRE Sustainment			449 270	40 27	11225 10000		40 27		588 284	45 30				
MACCS Sustainment (all systems)			270 256	VAR	VAR		VAR			VAR				
Fiber Cable Sustainment			60	20	3000		20			VAN	VAR			
***Direct Air Set Ctr Airborne System		200												
***Direct Air Spt Ctr Airborne System ***A2293 MACCS Shelters		800 949												
***A2233 MACCS Shelters		399												
Tactical Air Ops Module Shelter IROAN		35												
MCTSSA Tech Support Package		33												
CEOss Contractor Support			2968	VAR	VAR									
TACC Sustainment		480							306	VAR	VAR			
TAOC Sustainment		1303							394	VAR	VAR			
DASC Sustainment		600							220	VAR	VAR			
MACCS ISEA														
Comms Data Link System Sustainment		600	1837	VAR	VAR	274	VAR	VAR	288	VAR	VAR			
ADCP Sustainment		137	1007	7,41	.,,,,,	704	VAR			VAR				
CIS/CDS/DASCAS Sustainment		821	2886	VAR	VAR		VAR			VAR				
****ADCP/MERWS/DASCAS		1370							260	VAR				
****PRC-117's & Vehicle Mounts Qty		927	4700	VAR	VAR									
****BLOS Integration/ BLOS Gateway Procurement		3357	366	VAR	VAR									
Total		29034	20667			2586			6347					
Total		23034	20007			2300			0047					

		Appropriation	/ Budget Activi	ty/Serial No:	P-1 Line Iter	m Nomenclatu	re:	Weapon Syst	em Type:				Date:	
Exhibit P-5 Cost Analysis		(1109)/Comm Equipment (4	Marine Corps nunications and)	I Electronics	AIR OPE	RATIONS C2			AIR OPEI	RATIONS C2 S	SYSTEMS			2009
Weapon System		Prior Yrs		FY08			FY09			FY10			FY10 OCO	
Cost Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
MIDS-LVT terminals (Active) MIDS-LVT terminals (Reserves)			9674 500	11										
MACCS Various Support RePlace Technology (Active) RePlace Technology (Reserves) Antennas Sustainment MCIU Transit Cases (JRE Interface Unit) (Active) MCIU Transit Cases (JRE Interface Unit) (Reserves) Fiber cables			2949 123 650 4804 960 506	96 4 VAR 10 2 VAR	30720 VAR 480417 480417									
Data Terminal Set replacement for TACC (Active)			354	8	44222									
Data Terminal Set replacement for TACC (Reserves)			44	1	44222									
MACCS Obsolesence refresh V5D CCAs TAOM Corner Adapters TAOM pallet upgrade (Cornex/Racks) ABFOCA replacement LMS-MT suites (Active) LMS-MT suites (Reserves) SPAWAR Information Assurance Support			4545 538 72 699 1288 1361 272 535	VAR 150 31 31 VAR 5 1 VAR	3587 2322 22548 VAR 272167									
MACCS Sustainment JSS Support/SAAWF Mobile (Active) JSS Support/SAAWF Mobile (Reserves)		7562 3800 11362	6678 1600 38152	8										

Exhibit P-5 Cost Analysis		Appropriation/ Boundary Procurement, Ma (4)	-			and Electronics I	Equip		em Nomencla ATIONS C2 S			ystem Type:	Date: May	2009
Weapon System	ID CD	Prior Yrs	TotalCost	FY08 Qty	Ī		Y09		TotalCost	FY10	UnitCost	F TotalCost	Y10 OCO Qty	
Cost Elements	10 00	TotalCost \$000	\$000	Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	\$000	Qty Each	\$	\$000	Each	UnitCost \$
TBMCS New Equipment Training OnSite Fielding Reps Integrated Logistic Support TBMCS Systems TOTAL		9400 4360 4869 3329 21958	431 425			2000 895 994 3889			1500 800 678 477					

Exhibit P-5 Cost Analysis		Appropriation/ Procurement, Equip (4)	=	-		ns and Electron	ics		Nomenclatu		Weapon Sys	tem Type:	Date May	2009
Wassan Ossalasa		Prior Yrs		FY08			FY09	•		FY10			FY10 OCO	
Weapon System Cost Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
Battlefield Target Identification Device Low Rate Initial Production B-Kit LRIPs A-Kit LRIPs Other Direct costs Investment Program Office BTIS First Article Test BTIS First Destination Transportation (FDT) BTIS Support Equipment BTIS Other		921 4717 629 1 1095 1152				3230 1109 973 817 231 1	VAR	VAR VAR VAR VAR						
Composite Tracking Network (CTN) CTN Platform Components (Production) Program Management Support CEC ILS Components Crypto SDP S Crypto SDP S Implementation			7512 1546 169 1138		1878000 VAR VAR VAR	11833 2533 200 1195	VAR	VAR VAR		VAR VAR	VAR VAR VAR			
TIER I TIER I System (3 Air Vehicles, 1 Ground Control System, 1 Remote Video Terminal) Components Government Furnished Equipment Contractor Support			9439 3448 109 448	VAR	117990 VAR VAR VAR									
Remote Video Viewing Terminal Tactical Air Command Platform Suite Program Management Support TOTA	L	8515	23809			22122			4825 1500 31196		VAR			

Exhibit P-5	Appropriation/ Budget Ad	ctivity/Se	erial No:			P-1 Line Ite	m Nomenclati	ure: \	Weapon Sy	stem Type:				Date:	
Cost Analysis	Procurement, Marine Co Electronics Equipment (4		09)/Commun	ications and			ERATIONS C YSTEMS	2			CAC2S			May	2009
	T.		Prior Yrs		FY08		ı	FY09			FY10			FY10 OCC)
Weapon System Cost Elemen	ts	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$		Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
Common Aviation Command and Control System LRIP (GFE Long Lead - MIDS Terminals) LRIP (GFE Long Lead - HMMWVs) LRIP (CFE Long Lead Materials)			723 1073 2072												
CAC2S Subsystems PDS Capset III ECP KITS PDS Capset III ECP Kit CS/MRQ-12 ECP Kit				44100	21	2100000	5525 3094	17 17	325000 182000	1300 728	2	325000 182000			
Contractor Logistics Support Initial Spares Production testing Engineering Change Orders Net Training/Data Production support				350 1015 1895			702 100 50 50 407			740 86 63 51 10					
	TOTAL		3868	47360			9928			4086					

	Exhibit P-5a, Budget Procureme	ent History	and Planning					Date:	May 200	9
Appropriation / Budget Activity/Serial No:		Weapon Sys	tem Type:		P-1 Line Ite	m Nomen	clature:		,	
Procurement, Marine Corps (1109)/Communications and E	lectronics Equipment (4)		Air Operations C2 Systems	S		AIR	OPERATIONS (C2 SYSTE	EMS	
WBS Cost Elements:	Contractor and Location	Contract Method &	Location of PCO	Award	Date of First	QTY	Unit Cost \$	Specs	Date Revsn	RFP Issue
Fiscal Years	25/master and 250ans	Туре		Date	Delivery	Each	0 000t ¢	Avail?	Avail	Date
FY08										
COTS Sustainment	NSWC Crane, IN	FFP	MCSC, Quantico, VA	Oct-07	Feb-08	40	11225	N	N/A	N/A
Joint Tact Info Dist Sys Sustainment	General Dynamics	FFP	MCSC, Quantico, VA	Oct-07	Mar-08	27	10000	N	N/A	N/A
Fiber Cable Sustainment	NSWC Crane, IN	FFP	MCSC, Quantico, VA	Oct-07	Jan-08	20	3000	N	N/A	N/A
MACCS Various Support										İ
RePlace Technology	TAOM LCS contract	FFP	MCSC, Quantico, VA	May-08	Sep-08	100	30720	N	N/A	N/A
MCIU Transit Cases (JRE Interface Unit)	TAOM LCS contract	FFP	MCSC, Quantico, VA	May-08	Nov-08	12	480417	N	N/A	N/A
Data Terminal Set replacement for TACC	NSWC Crane, IN	FFP	MCSC, Quantico, VA	Jun-08	Nov-08	9	44222	N	N/A	N/A
V5D CCAs	Hill AFB, UT	FFP	MCSC, Quantico, VA	Apr-08	Aug-08	150	3587	N	N/A	N/A
TAOM Corner Adapters	NSWC Crane, IN	FFP	MCSC, Quantico, VA	May-08	Sep-08	31	2322	N	N/A	N/A
TAOM pallet upgrade (Conex/Racks)	NSWC Crane, IN	FFP	MCSC, Quantico, VA	May-08	Sep-08	31	22548	N	N/A	N/A
LMS-MT suites	Northrop Grumman MS, CA	FFP	MCSC, Quantico, VA	Apr-08	Oct-08	6	272167	N	N/A	N/A
FY09										
COTS Sustainment	NSWC Crane, IN	FFP	MCSC, Quantico, VA	Oct-08	Jan-09	40	14000	N	N/A	N/A
JTIDS Sustainment	General Dynamics	FFP	MCSC, Quantico, VA	Oct-08	Mar-09	27	10000		N/A	N/A
Fiber Cable Sustainment	NSWC Crane, IN	FFP	MCSC, Quantico, VA	Oct-08	Dec-08	20	3000		N/A	N/A
REMARKS:	<u> </u>									

	Exhibit P-5a, Budget Procurem	ent History	and Planning					Date:	May 200	9
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109)/Comm	: nunications and Electronics Equipment (4)		ystem Type: Air Operations C2 System	s			enclature: ATIONS C2 S	YSTEMS	·	
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method & Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issue Date
		туре			Delivery				Avaii	Date
FY10 CDLS COTS Refresh COTS Sustainment JTIDS Sustainment FY08 CAC2S PDS Capset III PDS Capset III	NSWC Crane, IN NSWC Crane, IN General Dynamics General Dynamics General Dynamics	FFP FFP FFP FFP	MCSC, Quantico, VA MCSC, Quantico, VA MCSC, Quantico, VA MCSC, Quantico, VA MCSC, Quantico, VA MCSC, Quantico, VA	Oct-09 Oct-09 Oct-09 May-09 Jul-10	Mar-10 Feb-10 Mar-10	7 45 30 3 18	9467 2100000	N N	N/A N/A N/A	N/A N/A N/A
REMARKS:										

	Exhibit P-5a, Budget Prod	curement H	listory and Planning					Date:	May 200	9
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109)/Communic	cations and Electronics Equipment (4)	Weapon Syster	m Type: Air Operations C2 Systems		P-1 Line Ite	m Nomen	clature: Air Operatio	ns C2 Svst	-	
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method & Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issu Date
FY08 CTN Platform Components	Various	VAR	MCSC, Quantico, VA	Mar-08	Jul-09	4	1878000	Y	N/A	N/A
FY09 CTN Platform Components	Various	TBD	MCSC, Quantico, VA	Dec-08	Dec-09	6	1972167	Y	N/A	N/A
FY10 CTN Platform Components Crypto SDP S	Various TBD	TBD TBD	MCSC, Quantico, VA NAVSEA, Washington, D.C.	Dec-09 Dec-08	Dec-10 TBD	9 14			N/A N/A	N/A N/A
FY08 TIER I	AeroVironment Inc. Simi Valley, CA	FFP	MCB, Quantico, VA	Jan-08	Mar-08	80	117990	Y	N/A	Dec-08

CTN: All unit costs on the P5 make up one system.

	EXHIBI [*]	ΤP	-21,	PRC	DU	СТІО	N S	СНЕ	DU	LE										Date	e:				Мау	2009)				
Appropriation Code/CC/BA/BSA/Item Control	l No.						We	apon	Syste	em				P-1	Item	Nome	ncla	ture:													
Procurement, Marine Corps (1109) / Commu	nications ar	nd E	lextro	onics E	quip	ment		Air O	perat	ions	C2 S	ysten	ns						Air C	pera	itions	C2 :	Syste	ems (MAC	CS)					
							Р	ROD	UCT	ΓΙΟΝ	I RA	TE			PF	ROCU	IREI	MEN	IT LE	EAD	TIME	S									_
											I		Al	_T Pr			T Aft		_	Initia	_	-	eord	er							_
ITEM	Manufacti	urer	's NA	ME/LO	CAT	ION	M	ISR	EC	ON	M	AX	to	Oct	1	C	Oct 1		М	fg Pl	т.	M	lfg P	LT		TO	TAL	l	ι	Jnit d	of
COTS Sustainment	NSWC Cra	ne, I	N					10	3	30	3	30					1			4							5			Е	
Joint Tact Info Dist Sys Sustainment	General Dy	/nam	nics					10	1	14	2	27					1			5							6			Е	
Fiber Cable Sustainment (FY08)	NSWC Cra	ne, I	N					5	1	15	2	20					1			3							4			Е	
Fiber Cable Sustainment (FY09)	NSWC Cra	ne, I	N					5	1	15	2	20					1			2							3			Е	
RePlace Technology	TAOM LCS	con	ntract					12	3	30	6	60					7			4							11			Е	
MCIU Transit Cases (JRE Interface Unit)	TAOM LCS	con	ntract					2	1	10		14					7			4							11			Е	
Data Terminal Set replacement for TACC	NSWC Cra	ne, I	N					1		5	1	11					8			5							13			Ε	
TAOM Corner Adapters	NSWC Cra	ne, I	N					5	1	18		40					7			4				-			11			Ε	
LMS-MT suites	Northrop G	rumr	man M	IS, CA				1		4		7					6			6							12			Е	
CDLS COTS Refresh	NSWC Cra	ne, I	N					1		2		6					1			5							6			Е	
	•						•		•		Fisca	al Ye	ar 08			•							Fi	scal	Year	09					Т
														Cale	enda	r Year	80							С	alen	dar \	Year	09			1
		F V T E A								J	F	M	Α	М	J	J	Α	S	0	N	D	J	F	М	Α	М	J	J	Α	S	1
ITEM		Υ	V C	Y	L	A L	C T	0 V	E C	A N	E B	A R	P R	A Y	U N	U L	U G	E P	C T	0 V	E C	A N	E B	A R	P R	A Y	U N	U L	U G	E P	E
COTS Sustainment		80	MC	40		40	Α				10			10			10			10											
COTS Sustainment		09	MC	40		40													Α			10			10			10			1
JTIDS/JRE Sustainment		08	MC	27		27	Α					14						13													(
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Data Terminal Set replacement for TACO		80	MC	9		9									Α					2			2			2		Ш.	3		_
TAOM Corner Adapters		80		31		31								Α				8			8			8			7				
TAOM pallet upgrade (Conex/Racks)		80	MC	31		31								Α				6				6				6				6	17
LMS-MT suites		80	MC	6		6							Α						2				2				2				
V5D CCA'S		08	МС	150		150							Α				20	20	20	20	20	20	20	10							1
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TAOM pallet upgrade (Conex/Racks)		08	MC	31	24	7	✝	1.5		7	1			1											t			\vdash		 	Ť
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JTIDS/JRE Sustainment																															

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	Exhibit P-40,	Budget Item J	lustification	Sheet			Date:		May 20	09	
Appropriation / Budget Activity/S	Serial No:				P-1 Item Nome	nclature:					
Procurement, Marine Corps (110	09) / Communications and	Electronics Equipm	nent (4)					RADAR SYST	EMS		
Program Elements:			Code:	Other Related	Program Eleme	nts:					
0206211M Tactical A	Air Control Systems (Marine	e Corps)	Α								
	Prior Years	FY 2008	FY 2009	FY 2010	FY2010 OCO	FY2010 TOTAL					
Proc Qty											
Gross Cost	50.9	134.3	42.5	7.4	3.4	10.8					
Less PY Adv Proc											
Plus CY Adv Proc			17.4								
Net Proc (P-1)	50.9	134.3	59.9	7.4	3.4	10.8					
Initial Spares	0.0	0.0	0.0	0.0	0.0	0.0					
Total Proc Cost	50.9	134.3	59.9	7.4	3.4	10.8					
Flyaway U/C											
Wpn Sys Proc U/C		·									

Ground/Air Task Oriented Radar (G/ATOR) (formerly known as the Multi-Role Radar System (MRRS) - G/ATOR is a expeditionary, 3-dimensional, high-mobility multi-purpose wheeled vehicle, short/meduim range multi-role radar designed to detect cruise missiles, air breathing targets, rockets, mortars, and artillery. MRRS and GWLR (Ground Weapons Locating Radar) merged into a single requirement/capablity (G/ATOR) and will replace an aging fleet of single mission legacy radar systems. G/ATOR will support air defense, air surveillance, counter-battery/target acquisition, aviation radar tactical enhancements and the final evolution will also support the Air Traffic Control mission.

Short/Medium Range Air Defense Radars - The AN/TPS-63B is a two-dimensional, medium-range, medium altitude, transportable, radar system which is employed as a tactical gap-filler or as an early warning system for early deployment into the operational area. It has a 360-degree air surveillance capability at a range of 160 miles and complements the co-employed AN/TPS-59 (V) 3 three dimensional, long-range, air surveillance radar system. The AN/TPS-63B, like the AN/TPS-59 (V) 3, is employed by the Marine Air Control Squadron (MACS) as its Tactical Air Operations Center (TAOC) in support of air surveillance and air control mission objectives. The FY10 funding profile includes the purchase of various ancillary equipment to include upgrade kits for compressors and dehydrators, interface cards, parts and spares.

Family of Target Acquisition Systems (FTAS)/Ground Weapons Locating Radar (GWLR) - The FTAS provides the MAGTF the capability to locate, identify and attack enemy indirect fire weapons systems and observe and direct friendly artillery fire. The FTAS consists of the AN/TPQ-46 Fire finder radar, the AN/TPQ-48 Lightweight Counter Mortar Radar and the Target Processing Set. The FTAS is critical in the execution of counter fire and the integration of target acquisition information enabling attack by MAGTF assets. The FTAS also provides artillery firing units the ability to conduct artillery registration and other friendly fire missions. The FTAS encompasses the equipment required to support target acquisition within the target acquisition platoon and is resident in the headquarters battery of each artillery regiment. The FY10 funding profile includes the purchase of upgrade kits and contractor support services for installation.

AN/TPQ-48 LIGHTWEIGHT COUNTER MORTAR RADAR (LCMR) - Is a component of the Family of Target Acquisition Systems and is a man portable counter mortar radar capable of providing 360 degree Indirect Fire Detection (IDF) coverage at ranges of 1 to 5 kilometers. The LCMR provides the radar platoon the ability to provide limited IDF detection capability to supporting observation posts, and operations that prohibit the employment of the AN/TPQ-46 Firefinder. The capabillity provided by the LCMR allows for the attach and destruction of enemy IDF assets and limits the number of volleys enemy weapons sytems can fire reducing the risk of death and injury to friendly forces.

AN/TPS-59 Sustainment - Funding profile includes radar modifications which improve mean time between failure rates and enhanced performance characteristics and upgrades obsolete/Diminishing Manufacturing Sources (DMS). The AN/TPS-59 radar provides three-dimensional long range surveillance and detection against air-breathing targets and tactical ballistic missiles. It provides launch/impact point and cueing information to other theater missile defense systems. Continuous use in deployed support of OIF/OEF decreases material readiness of the control shelters - specifically, the Data Processor Group (DPG). FY09 OCO funding will procure fully capable Data processing Group Control Shelters mitigating operational risk.

Exhibit P-5		Appropriation/						P-1 Line Item N	lomenclature:		Weapon Syster	n Type:	Date:	
Cost Analysis		Procurement, M (4)	farine Corps	(1109) / Con	nmunications	and Electronics	Equipment	RA	DAR SYSTEM	IS			May	2009
Weapon System Cos	. T	Prior Yrs		FY 08			FY 09			FY 10			FY 10 OCO	
Elements	CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	RADAR SYSTEMS	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	Unit Cost \$
GWLR/FTAS	Α	φοσο	\$000			STOTEWS			φοσο					
Upgrade Kits and Installation						633			1005					
CEOSS						600	VAR	VAR	564	VAR				
Radar Processor LRIP (5) refresh		1257	4705		400077									
Re-Hosted Radar Processor refresh			4795	44	108977	0000	\/AD	\/A.D						
Target Processing Set		6700	5000	7	714286	8000	VAR	VAR						
Q-46A SL3 Radar ancillary equipment Integration of systems		6783 110				910	VAR	VAR	943	VAR				
AAO Increase Q-46A Radar Set, 202k		110	97669	16	6104313	910	VAR	VAR	943	VAR				
IIP Plus up for AAO Increase			97009	10	0104313									
FY10 GWOT FTAS ECP's/Mods												3325	VAR	VAR
Antenna Transceiver Groups (ATGs)												3323	VAR	VAN
LCMR														
AN/TPQ-48 LCMR refresh		1500	5000	19	263158									
AN/TPQ-48 V2+ LCMR kits		1000	0000	10	200100	7520	46	163478						
						7020	10	100170						
AN/TPS-59 Sustainment														
Data Processing Group Tech Shelter Refresh - Phase	1													
Data Processing Group(DPG)Shelter Phase II						12000	2	6000000						
Technology Refresh completion														
Diminishing Manufacturing Sources Issues - NO END		4534	7681			12469			4216					
IROAN Support														
Control Shelter Refresh		17200	12406											
Control Shelter Refresh		19500												
Interrogator Mod Kits - NO END ITEMS												92	VAR	VAR
CROUND/AID TACK ORIENTED DADAD														
GROUND/AIR TASK ORIENTED RADAR														
G/ATOR Systems														
Less PY Long Lead						17000	1/40	\/^5						
CY Long Lead Items (T/P Modules, cables, barnesses, connectors)						17389	VAR	VAR						
(T/R Modules, cables, harnesses, connectors)														
Object/Meditions Description Air D. (1997)														
Short/Medium Range Air Defense Radar														
ancillary equipment:			400			440			700					
Compressor/Dehydrator update kits, OEM System ECP Upgrades/Refresh, RF SUITE			428			419			700					
OEIVI System ECP Upgrades/Refresh, RF SUITE			1304											
TOTA	ьl	50884	134283			59940			7428			3417		
ACTIV		50884	134283			59940			7428			3417		
RESERV			. 5 1250			300-70								
RECERV	1											I		

Exhil	oit P-5a, Budget Procurem	nent Histor	ry and Planning					Date:	May 200	na
Appropriation / Budget Activity/Serial No:		Weapon Sys	stem Type:		P-1 Line It	tem Non	nenclature:		May 200	Ja
Procurement, Marine Corps (1109) / Communications an	d Electronics Equipment (4)	' '	RADAR SYSTEMS				nd Weapons L	ocating	Radar	
WBS Cost Elements:	Contractor and Location	Contract Method &	Location of PCO	Award Date	Date of First	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn	RFP Issue
Fiscal Years		Туре			Delivery	Lacii		Avaii:	Avail	Date
GWLR FY08 AN/TPQ-46A Radar SL3 Radar Set AAO Increase			MARCORSYSCOM	Feb-08	Oct-09	16			N/A	N/A
FY08 AN/TPQ-46A Radar Target Processing Set	CRANE	FFP	MARCORSYSCOM	Oct-08	July-09	7	714286	Υ	N/A	N/A
<u>LCMR</u>										
FY09 AN/TPQ-48 V2+ LCMR Kits	FT MONMOUTH/CECOM	FFP	MARCORSYSCOM	Jul-09	Jan 11	46	163478	Υ	N/A	N/A
AN/TPS-59 FY09 Data Processing Groups Phase II (DPG)	LOCKHEED MARTIN/SYRACUSE NY	FFP	MARCORSYSCOM	Dec-09	Jun-10	2	6000000	Y	N/A	N/A
REMARKS:										

		Advance	e Procurem	ent Requ	irements	Analysis-F	unding (P-	10A)					Date: May 2	2009
Appropriation / Budget Activity/Serial No:					P-1 Line Ite	m Nomenclatu	re / Weapon S	ystem:	P-1 Line Item No	menclature:			,	
Procurement, Marine Corps (1109) / Comr	munications ar	nd Electronic	s Equipment (4)							RADAR S	YSTEMS		
		(\$ IN	Millions)						RADAR SYST	EMS				
		When												
G/ATOR	PLT	Rqd												
	(mos)	(mos)	Pr Yrs	2007	2008	2009	2010	2010 OCO						
End Item Quantity: Transit and Receiver Modules, Processors Electronics Modules and Components Amplifiers Power Supplies	12	9	0	0	0	VAR 5.406 1.570 0.872 0.174 1.570								
Cabling and Connectors Array Structure & Pallet Assemblies						7.797								
Total Advance Procurement						17.389								

Appropriation / Budget Activity/Serial No:			P-1 Line Item Nomenclature / W	eapon System:	P-1 Line Item N	Nomenclature:	DADAD OVOT	-140	
Procurement, Marine Corps (1109) Comm	unications and Elect	ronics Equip. (4)				(\$ in Millions)	RADAR SYSTI	=MS	
G/ATOR	Pr Yrs	2007	2009	2010					
AP Proposal									
Then Year Cost Constant Year Cost (CY04\$)			17.440 14.964						
Present Value			15.988						
Difference (AP Savings) Then Year Cost Constant Year Cost (CY04\$)			(17.440) (14.538)						
Present Value			- (14.556)						

Appropriation Code/CC/BA/BSA/Item	Control No:					Wea	apon	Syste	em.				P-1 l	tem l	Nom	encl	ature:								2009					
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Firefinder Ra	dar (A1440) TPC	Q-46					PRO	DUC	TION	RATE				F	PRO	CUR	EMEN	IT LE	ADT	ME	S									
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Q-46A Radar SL3 Radar Set	RAYTHE	ON /F	IIIIF	RTO	N CA		2		2							4		-	32	4					3	6		E		
AN/TPQ-48 V2+ LCMR KITS	8 V2+ LCMR KITS RAYTHEON /FULLERT					_	2	_	2							4	-		32	4					3			E		_
Target Processing Set	Firefinder Radar (A1440) TPQ-46 Manufacturer's NAME / L0 dar SL3 Radar Set RAYTHEON /FULLERT RAYTHEO					_	2	_	2							10	1		19	1					1:					_
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Q-46A Radar SL3 Radar Set	0	8 M(16		16			П		Α										7										1
Target Processing Set					7												-	Α		7							2	2	2	_
AN/TPQ-48 V2+ LCMR KITS					46																						Α			4
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Q-46A Radar SL3 Radar Set	0	8 M0	16		16	2		2	1			5	2	2	2															
Target Processing Set	0	8 M0	7	6	1	1																								
AN/TPQ-48 V2+ LCMR KITS	0	9 M0	46		46																8	8	8	8	8	6				
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Firefinder Radar ((A1440) TF	2Q-4	16					PRC	DUC	CTION	RATE		Π		F	PRO	CUR	REME	NT LE	EAD 1	ГІМЕ	-S									
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AN/TPS-59 Radar Control Shelter	LHM Sy	/rac	use N	lew Y	⁄ork			2	L	2							3						<u> </u>			3	3		E		<u> </u>
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	Exhibit	P-40, Buc	dget Item J	ustificatio	n Sheet	,		Date:		May 2009		
Appropriation / Budget / Procurement, Marine Co			is and Electror			P-1 Item Nom			UPPORT SY:	-		
Program Elements:				Code:	Other Relate	ed Program Ele	ments:					
0206	6211M Divisions ((Marine)		Α	<u> </u>							
	Prior Years	FY 2008	FY 2009	FY 2010	FY 2010 OCO	FY 2010 OCO Total						
Proc Qty					'						'	
Gross Cost	253.8	35.9	5.7	2.6	0.5	3.1	<u> </u>			<u> </u>	<u> </u>	<u> </u>
Less PY Adv Proc		<u></u> '			<u> </u>						'	
Plus CY Adv Proc					<u> </u>						<u> </u>	
Net Proc (P-1)	253.8	35.9	5.7	2.6	0.5	3.1					<u> </u>	
Initial Spares	2.2	0.0	0.0	0.0	0.0	0.0					<u> </u>	
Total Proc Cost	256.0	35.9	5.7	2.6	0.5	3.1					<u> </u>	
Flyaway U/C					<u> </u>						<u></u> '	
Wpn Sys Proc U/C			<u> </u>	<u> </u>	<u> </u>						<u> </u>	
Active			FY2008	FY2009	FY2010	0 FY2010 (CO	FY2010 TOTAL				
Reserve	Gross Cost		35.9	5.0	2.0	0.5		2.5				
Total	Gross Cost		0.0	0.7	0.6	0.0		0.6				
	Gross Cost		35.9	5.7	2.6	0.5		3.1				

Common Laser Range Finder - CLRF - The CLRF Pre-Planned Product Improvement (P3I) will provide a lightweight, man portable, True North Azimuth Determination System (TNADS) capable of interfacing with the Common Laser Range Finder (CLRF) and the Defense Advanced Global Positioning System (GPS) Receiver (DAGR). P3I will equip operating forces with a technological capability to reduce the target location error to allow more accurate target locations. If not approved, the Marine Corps will continue to have a deficiency in target location error (TLE) at the dismounted level.

Muzzle Velocity System: The M-94 provides an accurate muzzle velocity reading for a projectile fired from a M-198 or M-777 155mm howitzer and to adjust the gun after several rounds have been fired. The M-94 provides advanced muzzle velocity and gun management functions which enable the operator to store and retrieve adjusted muzzle velocities for the rounds fired for all gun type/projectile/propellant combinations in use. Without this additional rounds will be required to adjust the gun.

Modeled Meterological Information Manager (MIMM) provides the ability to derive highly accurate meteorological data through the use of Numerical Weather Prediction (i.e. meteorological models). MMIM will provide this meteorological information to correct artillery, mortar, and rocket firing data, as well as corrections for target locating radars such as the AN/TPQ-46A. MIMM is the replacement system for the Meteorological Station Group (MSG) under TM2.

Sight, Grenade Launcher AN/PSQ18A (E1779) - The AN/PSQ-18A, Model 1800, is an enhanced aiming device designed to enable the Marine to rapidly and precisely fire the M203 in daylight, low-light, and night conditions. The AN/PSQ-18A GLDNSM is being procured via the U.S. Special Operations Command (USSOCOM) to fulfill the requirements of the Marine Corps' M203 Enhanced Sighting Device (ESD) program.

Fire Support Mods (Sustainment): Funding will provide upgrades to electronic suites/product improvements for Tactical Meteorological Manager (TM2). This will also support the procurement of the Long Range Thermal Imager (LRTI) and Laser Spot Imager. The LRTI LSI will provide a night capability to the LTD and CLRF systems. Additionally, various Fire Support Equipment is required by the Table of Equipment to support the stand-up of new units within the Marine Corps to meet the 202k end-strength. The AAOs and TAMCNs for the funding contained under the sustainment line is various due to the large number of items procured.

Ground Laser Target Designator II (GLTD II): GLTD II is an interim solution to Laser Target Designation. All money for Laser Target Designation will procure the Portable Laser Designated Rangefinder (PLDR), the long term LTD hardware solution. Contract award for the remaining 81 GLTD II units was Nov, 2007 with delivery beginning in Sep, 2008. PEI Procurement: Provides the thermal sight capability for the Common Laser Range Finder (CLRF) night targeting requirements. It allows the user to locate targets out to 5k at night. Various Fire Support Equipment required by the Table of Equipment to support the stand-up of new units within the Marine Corps to meet the 202k end-strength.

Exhibit P-40, Budget Item J	ustificatio	n Sheet		Date: May 2009
Appropriation / Budget Activity/Serial No:			P-1 Item Nomenclature:	
Procurement, Marine Corps (1109) / Communications and Electron	nics Equipme	nt (4)		FIRE SUPPORT SYSTEMS
Program Elements:	Code:	Other Relate	d Program Elements:	
0206211M Divisions (Marine)	Α			

True North Modiular System: True North Azimuth Determination System (TNADS) is capable of interfacing with the Common Laser Range Finder (CLRF) and the Defense Advanced Global Positioning System (GPS) Receiver (DAGR). TNADS will correct azimuth error resulting from CLRF's use of a digital magnetic compass by providing a True North point of reference. This will give the observer more accurate target location data and allow firing units first round effects on targets of opportunity and preplanned targets. It also allows for operation near vehicles and power lines.

Ground Counter Fire System: The Ground Counter Fire Sensor is a passive, autonomous system employed by the Marine Corps and the British Army that provides accurate location of indirect fire systems, explosive detonations, and heavy direct fire weapons. The Marine Corps procured the GCFS as a commercial-off-the-shelf system in response to an Urgent Universal Need Statement submitted by I MEF.

Hydraulic Pump Kit: Provides oil flow for ease in filling oil reservoirs, as well as recoil mechanisms, buffers, and replenishers on howitzers. It allows oil flow in either direction whether it is from a pressurized system to the reservoir or to a pressurized system from the reservoir.

Aiming Circle: The M2A2 Aiming Circle w/accessory equipment is used for precise measurement of azimuth and elevation angles of a ground or aerial target. The primary means of orienting the cannon battery or laying weapons on the azimuth of fire.

Collimator: The Collimator is the primary reference point for properly pointing a howitzer. They will be used on the M198, M777, and LW155.

Night Vision Equipment Set: Night vision devices (NVDs) provide the military with the ability to see, maneuver and shoot at night or during periods of reduced visibility. Two different types of NVDs – image intensifiers and thermals are utilized. Required to fulfill shortfalls resulting from OCO.

Laser Infra Observation Set: Provides accurate target location and recognition in clear and obscured visual conditions using an internal eye-safe laser rangefinder, digital compass, and vertical angle sensor. Is battery powered, compact, and may be hand held or tripod mounted. The Laser Infra Observation Set and Binocular Eye Safe are both part of the legacy system for the Common Laser Range Finder (CLRF).

Binocular Eye Safe: The Azimuth and Eye-safe Range finding Observation Set together with the Laser Range Finder will provide the primary means for front line Marine forces at the platoon, company and battalion level to obtain accurate target location. Is battery powered, compact, and may be hand held or tripod mounted.

Laser Range Finder: Will provide the primary means for front line Marine forces at the platoon, company and battalion level to obtain accurate target location. It is a small, light weight, highly portable, night observation capable, optical system containing an integral eye-safe laser rangefinder and azimuth and inclination sensors.

North Finding Module: The North Finding Module is a single unit of equipment that provides the azimuth for alignment of the Modular Universal Laser Equipment. It provides the MULE with the ability to locate the azimuth of true north, magnetic north, and/or grid north to an aiming point. It is currently being phased out of the inventory.

Radar Chronographs: Provides an accurate muzzle velocity reading for a projectile fired from a gun and to provide data for adjustment of the gun elevation after several rounds have been fired.

Shop Set Equipment: The Shop Set Equipment Artillery shelter is a transportable facility designed to provide Intermediate Maintenance Activity (IMA) maintenance capability for maintaining/repair of artillery equipment. It provides a working and storage space and the basic tools and equipment used to maintain/repair artillery equipment. **Long Range Thermal:** The LRTI allows users to have a day/night thermal surveillance tool that, in combination with the Vector 21B, allows users to acquire, locate and engage targets at ranges in excess of 5 km. The LRTI has the capability to provide surveillance in excess of 10 km.

Justi	ficat	ion for Ag	gregated It	ems		Date:		May 2009				
ns and	Electr	onic Equipme	nt (4)	P-1 Item Nome	enclature:		FIRE SUI	PPORT SYS	STEMS			
Code	UOM	Prior Years	FY 2008	FY 2009	FY 2010							
Α	D	2.1	0.0	0.0	0.2							
Α	D	30.6	2.0	2.6 VAR	1.9							
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Exhibit P-5		Appropriation Procuremen				ications				Weapon S	ystem Type	:	Date:	
Cost Analysis		and Electron	ics Equipme	ent (4)	, , John Hull	104110110		SUPPORT	SYSTEMS				·	2009
Weapon System	ID CD	Prior Yrs TotalCost	TotalCost	FY 08 Qty		TotalCost	FY 09 Qty	UnitCost	TotalCost	FY 10	I	TotalCost	FY 10 OCO	
Cost Elements	CD	\$000	\$000	Each	UnitCost \$	\$000	Each	\$	\$000	Qty Each	UnitCost \$	\$000	Qty Each	UnitCost \$
CLRF Contractor Consulting Services Integrated Logistics Support	А	55068 1013 796		297	21814									
Ground Laser Target Designator II (GLTD II) Replaced by LTD. These funds purchased Portable Lightweight Designator Rangefinder (PLDR) systems.	А	24805	1088	50	21760									
PEI Procurement	А		14817	155	95593									
Ground Counter Fire System (GCFS) Software Software rewrite to allow use of MCHS ruggedized laptops.	А		5500	1	5500									
True North Azimuth Deremination System (TNADS)	A	81682	6000 33884	TBD	TBD									
Active Reserves	9	160693 20421	33884											

Ex	hibit P-5a, Budget Procure	ment Histo	ory and Planning					Date:	May 200	19
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communication	ns and Electronics Equipment (4)	Weapon Sy	stem Type:		P-1 Line I		enclature: E SUPPORT		,	<i>7.</i> 0
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method & Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issue Date
COMMON LASER RANGE FINDER FY08 CLRF - Common Laser Range Finder	Ashbury Intl Group (AIG), VA	C/FP	MCSC, Quantico, VA	Nov-07	Nov-08	297	21814	Yes	N/A	Oct-02
GROUND LASER TARGET DESIGNATOR II FY08 GLTD II - Ground Laser Target Designator II	Kollsman Inc., NH	C/FP	MCSC, Quantico, VA	Nov-07	Sep-08	50	21760	Yes	N/A	Apr-06
PEI Procurement FY08 PEI Procurement	Kollsman Inc., NH	C/FP	MCSC, Quantico, VA	Oct-07	Mar-08	155	95593	Yes	N/A	Jul-05
True North Azimuth Deremination System (TNADS)	TBD	C/FP	MCSC, Quantico, VA	TBD	TBD	TBD	TBD	Yes	N/A	TBD
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	E)	xhibit P-40, Bud	get item Ju	istification	Sneet						May 2009	
Appropriation / Budget Activity/Seria	al No:						P-1 Item Nome	enclature:	-			
Procurement, Marine Corps (1109)	/ Communications and Electron	nics Equipment (4)							Intellige	nce Support E	quipment	
Program Elements:		Other Related Progra	m Elements:									
0206313M Marine	e Corps Communication Equipn	ommunication Equipment A										
	Prior Years	FY2008	FY 2009	FY 2010	FY2010 OCO	FY2010 Total						
Proc Qty												
Gross Cost	499.5	205.5	140.0	37.6	37.5	75.1						
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	499.5	205.5	140.0	37.6	37.5	75.1						
Initial Spares	18.2	0.0	0.0	0.2	0.0	0.2						
Total Proc Cost	517.7	205.5	140.0	37.8	37.5	75.3						
Flyaway U/C												
Wpn Sys Proc U/C												

This is a composite line of the intelligence equipment which includes:

TIER I UAS - This program procures a capability for unmanned aircraft systems (UAS) to provide the company/detachment level with airborne reconnaissance to aid in detecting, identifying and engaging or avoiding enemy units. The UAS gather and transmit imagery of the tactical situation in near-real time at a range of up to ten kilometers. The Dragon Eye (DE) UAS was selected as the material solution for the SURSS Block 0 requirement. Raven B is a five pound, hand launched, reusable vehicle with a wing span of 55 inches. As with the DE System, the air vehicle flies at an altitude of 300-500 feet above ground at a speed of approximately 35 knots. This system has a maximum duration of 90 minutes. A SURSS Block 1 system consists of three Raven B air vehicles, one Ground Control Station (GCS), one Reconnaissance, Surveillance, and Target Acquisition (RSTA) Kit, one Field Repair Kit (FRK), and one Initial Spares Package (ISP). The RSTA kit is used for mission planning, autonomous flight operations and mission product archiving. This is a joint US ARMY/USSOCOM Program. Funding resides in BLI 464000 in FY08.

Remote Video Viewing Terminal (Video Scout) - Video Scout MC will be used to fill the need specified in UUNS 08100UB. Video Scout MC is a mobile video exploitation and management system with integrated receivers to easily capture and leverage real-time video and metadata directly from Unmanned Aerial Systems (UAS), targeting PODs, intelligence feeds, and other common sensors. Video Scout MC allows users to view incoming video, as well as archive, annotate, georeference and disseminate relevant, actionable video to others across the battle space.

Micro-Terrain Surveillance System (MTSS) - is a rapidly employable, digital network of computers, digital radio transmitters, receivers, cameras, and sensors. The MTSS is used to conduct remote video surveillance and monitoring of areas of interest on the battlefield. MTSS networked devices are remotely managed and operated allowing for ease of setup and operation. MTSS has a low power consumption rate which enables concealment and extended duration employment. This capability was previously an UUNS under Tactical Concealed Video System (TCVS), which is transitioning to an UNS under MTSS.

Technical Control and Analysis Center (TCAC) consisting of the AN/UYQ-83 TCAC Remote Analysis Workstation (RAWS), AN/MYQ-9 TCAC Transportable Workstation, Multi-Level Security (MLS) and One Roof system is the focal point of Radio Battalions Signals Intelligence (RadBn SIGINT) operations. The TCAC provides automated processing, analysis and reporting functions of the RadBn in order to fulfill its mission of providing timely, accurate Signals support to Marine Air-Ground Task Force (MAGTF) combat operations. The TCAC is capable of directing and managing the technical and operational functions of other RadBn SIGINT/EW assets and providing communications connectivity for data exchange with these systems, the Intelligence Analysis System (IAS) and National databases. The system provides ground processing of Electronic Warfare (EW) information, including Electronic Warfare Support (EWS) and Electronic Attack (EA) data collected by the Radio Battalion & Tactical electronic Warfare Squadrons (VMAQ EA-6B) aircraft. The system is capable of correlating, fusing, and evaluating radar emitter identification and location data from the EA-6B with other National and theater sources.

Exhibit P-40, Budget Item Justification Shee	et	Date: May 2009
Appropriation / Budget Activity/Serial No:	P-1 Item Nomenclature:	
Procurement, Marine Corps (1109) / Communications and Electronics Equipment		Intelligence Support Equipment

Distributed Common Ground/Surface System (DCGS) in compliance with the Department of Defense DCGS Family of Systems concept, is a Service-level effort to migrate select USMC Intelligence, Surveillance and Reconnaissance (ISR) processing and exploitation capabilities into a single, integrated net-centric baseline consisting of functional capability sets that support Marine intelligence analysts across the Marine Air-Ground Task Force (MAGTF) by making organic ISR data more visible, accessible, and understandable. The Distributed Common Ground System-Marine Corps (DCGS-MC) concept originated with the DCGS Mission Area Initial Capabilities Document (MA ICD) Joint Requests Overage Community Memorandum (JROCM 001-03) dated 6 Jan 03 which established the overarching requirements for a collection of netcentric capable systems that will contribute to joint and combined War fighter needs for ISR support. Each service is directed to pursue a coordinated developmental path based on a set of common enterprise services consistent with the DoD's net-centric vision. Furthermore, each service's DCGS solution is to evolve independently through the implementation of common enterprise architecture and standards. The DCGS Integration Backbone (DIB) is intended to be the basic building block for interoperability between the Service DCGS programs and is comprised of integrated Commercial Off The Shelf (COTS) and Government Off The Shelf (GOTS) software package originally developed under the Air Force DCGS 10.2 contract with Raytheon. The Air Force has established a separate DIB Management Office (DMO) to direct day-to-day developmental efforts in coordination with the Army, Navy, Marine Corps, and United States Special Operations Command (USSOCOM) DCGS program offices with oversight provided by OUSD (I). The DCGS-MC program is currently evaluating the appropriate implementation of DIB standards and anticipates leveraging heavily from the developmental efforts of its sister Service DCGS programs as its own developmental efforts are fully underway.

Trojan Spirit Lite (TROJAN) is an Super High Frequency (SHF) multi-band satellite communications terminal, available in either High Mobility Multipurpose Wheeled Vehicle (HMMWV)-mounted or transit case configuration, that provides dedicated tactical communications capability at the TS/SCI and Secret Collateral levels to USMC intelligence units. TROJAN SPIRIT terminals provide connectivity into JWICSs, National Security Agency Network (NSANET) and Secret Internet Protocol Router Network (SIPRNET) via the TROJAN Network Control Center.

Joint Surveillance Target Attack Radar System (JSTARS) is a long-range, air-to-ground surveillance system, composed of an airborne element and a ground element. The airborne element, the E-8C aircraft contains a large phased array radar on the fuselage and multiple OZ-63 Air Data terminal (ADT) operator terminals. Radar data is distributed via an encrypted, jam-resistant Surveillance and Control Data Link (SCDL) for transmission to one of two JSTARS ground systems; the Common Ground Station or Joint Surveillance Work Station.(CGS/JSWS) The sensor suite provides detection and tracking data on targets through the use of the Moving Target Indicator (MTI), Fixed Target Indicator (FTI), Synthetic Aperture Radar (SAR) and Unmanned Aerial Vehicle (UAV). FTI and MTI data detect, locate and identify the movement of enemy targets, while SAR identifies critical fixed targets such as bridges, harbors, airports, buildings or stopped vehicles. The CGS is aground received and processed displaying system and receives JSTARS data directly from the E-8C JSTARS aircraft through the SCDL to the Ground Data Terminal (GDT). Once JSTARS data is collected at the ground receive site, MTI/FIT/SAR data will be sent across the Marine Air Ground Task Force (MAGTF) Command Control Communications Computes and Intelligence (C4I) network through existing and evolving tactical data networks. The CGS is also capable of receiving and fusing imagery data from Unmanned Aerial Systems (UAS)s directly onto JSTARS data, providing an enhanced collection processing capability. The JSWS is a functionally equivalent, transit cased subset of the CGS. The JSWS can be used in conjunction with a dedicated SCDL, but typically gets its JSTARS data via a

Exhibit P-40, Budget Item Justification Shee	et	Date: May 2009
Appropriation / Budget Activity/Serial No:	P-1 Item Nomenclature:	
Procurement, Marine Corps (1109) / Communications and Electronics Equipment (4)		Intelligence Support Equipment

Tactical Remote Sensor System (TRSS-PIP) will provide all weather direction, location determination, targeting, and tactical indications and warning of enemy activity in the Marine Air Ground Task Force (MAGTF) Commander's Area of Interest. The TRSS-PIP is an equipment suite consisting of three primary sub-systems: Unattended Ground Miniature Sensors (UGMS); Relay Systems; and monitoring systems. The sensor systems will include seismic/acoustic sensors, electro-magnetic sensors, infrared (passive) sensors; and air-delivered sensors. The relay systems include dual channel duplex commendable and single channel repeaters. The monitoring system includes the Sensor Mobile Monitoring System (SMMS). The composition of the three sub-systems are comprised of several individual components. As the Product Improvement Program proceeds, upgrading of individual components will occur on an as needed basis.

Team Portable Collection System - Multi-Platform Capable (TPCS-MPC) is a semi-automated, man/team portable system providing intercept, collection, direction-finding, reporting and collection management to Marine Air Ground Tast Force (MAGTF) commander. It provides special signals intercept, and Direction Finding (DF) capability for each system and is modular, lightweight and team transportable. The next upgrades will be the multi-platform capability and will allow the system to exploit information from more technically advanced target sets and will provide the MAGTF commander with a modular and scalable carry on/carry off suite of equipment.

Topographic ProductionCapability (TPC) is an integrated, independently deployed, self-contained terrain analysis system designed for data acquisition, manipulation, analysis and output, providing commanders and staff with Geospatial Intelligence (GEOINT) support at the Marine Expeditionary Force (MEF), Major Subordinate Command (MSC), and the Marine Expeditionary Unit (MEU) levels. The TPC configurations consist of Commerical Off The Shelf (COTS), Government-Off-The-Shelf (GOTS) software packages, servers, workstations, large-format printing/plotting devices and large-format scanning devices, all mounted in transit cases. The TPC provides critical, timely, and accurate digital and hardcopy geospatial information to support mission planning and execution. The TPC provides the capability to collect, process, exploit, analyze, produce, disseminate, and use all-source geospatial information as a foundation for the Common Tactical Picture (CTP) for the MAGTF Commander. The TPC is used by the Topographic Platoon of the MEF and provides deployable modules down to the Major Subordinate Command (MSC) and the Marine Expeditionary Unit (MEU). It supports the Commander, Joint Task Force or Marine Component Commander. The TPC provides the foundation for the Common Tactical Picture (CTP) of the battlefield; terrain analysis in support of the Intelligence Preparation of the Battlefield (IPB) process; all source terrain data collection, analysis and integration; and decision-aid development support.

Tactical Exploitation Group (TEG) provides the Marine Air-Ground Task Force (MAGTF) and/or Joint Task Force (JTF) Commander with an organic capability to produce imagery intelligence (IMINT) in support of operations. It is one of the five systems comprising the Distributed Common Ground/Surface System Marine Corps (DCGS-MC). Modular and scaleable, the TEG employs a tiered approach consisting of two echelon-tailored configurations - the TEG-Main (TEG-M) and the TEG-Remote Workstation (TEG-RWS). The TEG System employs commercial off-the-shelf (COTS) and non-developmental item (NDI) computer hardware and software to enable rapid upgrade and maintain commonality with Marine intelligence and Joint imagery systems.

Exhibit P-40, Budget Item Justification Sheet	Date: May 2009
Appropriation / Budget Activity/Serial No:	P-1 Item Nomenclature:
Procurement, Marine Corps (1109) / Communications and Electronics Equipment (4)	Intelligence Support Equipment

Wide Field of View Persistent Surveillance (WFVPS) (formerly Angel Fire) is a capability that supports persistent Intelligence, Surveillance and Reconnaissance (ISR), Improvised Explosive Device (IED) mitigation, and actionable intelligence in urban and other operations (e.g. disaster relief, security, etc). It delivers broad area, near real time, geo-registered imagery down to the tactical level of execution. Consisting of airborne and ground components such as the Airborne payload consists of an imager sensor (currently Electro-Optical (EO), on-board processors, and an air-to-ground communication link. Ground distribution network consist of the ground receive station, servers, storage and viewer client stations. AF is hosted on manned platforms, currently the King Air A-90p pilots fly the plane while the sensors can be controlled from the ground through autonomous software. The USMC objective EFVPS system will reside on an UAS.

MAGTF Secondary Imagery Dissemination System (MSIDS) is the only Family of Systems (FoS) that provides organic tactical digital imagery collection, transmission and receiving capability to the MAGTF Commander. MSIDS is comprised of components necessary to enable Marines to capture, manipulate, annotate, transmit or receive images in NRT, internally with subordinate commands that are widely separated throughout the area of operations and externally with higher adjacent commands. The MSIDS capability resides with the MAGTF G/S-2 sections, Reconnaissance Battalions, Light Armored Reconnaissance Battalions, Infantry Battalion Scout Sniper Platoons and Marine Special Operations Command. The MSIDS FoS extends the digital imaging capability to all echelons within the MEF, down to and including battalions and squadrons. Captured images are capable of being forwarded throughout the MAGTF and to higher adjacent echelons through the use Base Station Workstation/Communication Interface (BW/CI), Outstation Workstation/Communication Interface (OW/CI) or existing C4ISR architecture. Images can also be transmitted to the Tactical Exploitation Group (TEG) for more detailed processing and analysis. MSIDS FoS is currently employed in every location world-wide where the Marine Corps participates in contingency operations, and has recently been employed in Iraq, Kuwait, Afghanistan, Haiti, Philippines and Horn of Africa.

Exhibit P-40, Budget Item Justification Sheet		Date: May 2009
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Procurement, Marine Corps (1109) / Communications and Electronics Equipment (4)		Intelligence Support Equipment

Intelligence Equipment Readiness (IER) provides a responsive capability to alleviate Marine Corps intelligence systems shortfalls created by the rapidly evolving missions, threats and command relationships associated with the Overseas Contingency Operations (OCO) and 21st Century expeditionary military operations. IER provides for rapid technology insertion, as well as quick reaction training and logistics, to meeting the time sensitive intelligence infrastructure requirements of Marine Corps Operating Forces and the theater and service intelligence organizations supporting those forces. IER rapidly mitigates intelligence infrastructure shortfalls through exploitation of COTS, GOTS and Non-Developmental Item technology to the greatest extent practical. IER also centralizes support for Marine Corps intelligence infrastructure items and systems that are not separately identified within the program funding lines. IER provides the capability to address requirements that span across the entire Marine Corps intelligence systems architecture.

Intelligence Analysis System Mod (IAS) Family Of Systems (FoS) provides intelligence support to Marines garrison, shipboard, and battlefield missions at all levels of the MAGTF. This support includes the formulation and/or compilation of the commander's Priority Intelligence Requirements (PIR), Essential Elements of Information (EEI), and Other Intelligence Requirements (OIR); contingency planning; management of MAGTF collection assets; all-source intelligence analysis, briefing support, intelligence product fusion, production, reporting dissemination and training. The IAS FoS has proven to be the All-Source Fusion Center that provides interoperable scalable, semi-automated capabilities to receive, process, analyze, display and disseminate all-source intelligence, including imagery, to support timely tactical decision-making across MAGTF.

Radio Reconnaissance Equipment Program (RREP) provides equipment only for special operations capable, foot mobile SIGINT collection teams in the USMC. These Radio Reconnaissance Teams and Marine Corps Forces Special Operations Command (MARSOC) Direct Support Team (DST) are trained and equipped to support the full spectrum of Marine Expeditionary Unit Special Operations Capable (MEU SOC) mission profiles as well as provide real-time imbedded support to any special operations scenario. This provides the supported commander greater flexibility in employing his SIGINT assets when the use of conventional Radio Battalion assets are not feasible.

Exhibit P-40, Budget Item Justification Sheet		Date: May 2009
Appropriation / Budget Activity/Serial No:	P-1 Item Nomenclature:	
Procurement Marine Corps (1109) Communication and Electronics Equipment (4)		Intelligence Support Equipment

Counter Intel and Human Intel Equipment (CIHEP) provides dedicated Marine Air-Ground Task Force (MAGTF) CI/HUMINT support for full spectrum controlled, surreptitious, and tactical CI/HUMINT, Force Protection, and technical collection operations with a suite of integrated, standardized and interoperable equipment. The CIHEP suite of state-of-the-market equipment Commerical Off-The-Shelf (COTS) and Non-Developmental Item (NDI) enhances the CI/HUMINT Company ability to collect, receive, process and disseminate CI/HUMINT information from overt, controlled, sensitive, technical, tactical, CI, HUMINT, and Force Protection operations in the Service, Joint and Combined Forces arenas. CIHEP integrates audio, video, imagery, communications, technical surveillance and automated data processing equipment into lightweight, modular, deployable packages. CIHEP is Post Milestone C, Fielded AAP System.

Intelligence Broadcast Receiver (IBR) - The Joint Tactical Terminal/Common Integrated Broadcast Service - Modules (JTT/CIBS-M) Intelligence Broadcast Receiver (IBR) consists of a family of terminals and CIBS-M hardware and software modules. The Marine Corps IBR systems provide intelligence data to command, control, and intelligence (C2I) elements of the MAGTF. The JTT provides a single family of IBRs for use by the armed forces. Currently, two configurations are being produced; the JTT-T/R (Transmit/Receiver) and the JTT-R (Receiver only) and one configuration is in development; the Embedded National Tactical Receiver (4 channel receive-only). The mission is to provide critical near-real time intelligence to the tactical commander.

Technical Surveillance Countermeasures (TSCM) is a multi-service/agency required "performance level" suite of equipment providing Marine Air-Ground Task Force (MAGTF) Commander with a state-of-the-art, mission critical data protection capability required by national directive for each participant authorized to engage in this activity. Equipment is designed to detect, locate, identify, neutralize and/or exploit hostile audio, Radio Frequency (RF), Laser, Infrared (LI), optical, and telephone surveillance threats in and around areas where classified or sensitive information is discussed, and/or viewed. Equipment is selected based on current threat estimates evaluated by the National Committee for Technical Surveillance (NCTS) Facilities Protection Committee Technical Surveillance Working Group (TSWG). TSCM is in post milestone C and a fielded AAP system. TSCM consists of Commercial Off The Shelf (COTS)/Non-Developmental Items (NDI) equipment selected by the TSWG Preferred Product List (PPL). Equipment is refreshed every two years.

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Exhibit P-40, Budget Item Justification Shee	e t	May 2009
Appropriation / Budget Activity/Serial No: Procurement Marine Corps (1109) Communication and Electronics Equipment (4)	P-1 Item Nomenclature:	Intelligence Support Equipment
Communication Emitter Sensing and Attacking System (CESAS) is of platforms including High Mobility Multi-Purpose Wheeled Vehicles provides Marine Air-Ground Task Forces (MAGTFs) with the capabi amphibious assaults and subsequent operations ashore. The syste and into an Mine Resistant Ambush Project (MRAP) vehicle by FY10 Joint Worldwide Intelligence Communications System (JWICS) is the Compartmental Information (TS/SCI) portion of the Defense Information permit point-to-point or multi-point information exchange involving vortice (DOD) Intelligence Community. JWICS provides Marine Formation of the Intelligence support that intelligence organizations provide intelligence support provides 24-hour TS/SCI intelligence processing components, and multimedia communications to include Joint Intelligence required for collaboration with various the sound of the provided intelligence in the light of the provided intelligence in the light of the light o	s (HMMWV), waterborn ility to detect, disrupt a em is being integrated in 0. The Top Secret Sensitive action System Network. To oice, text, graphics, day forces with special intelect to operating forces in g, imagery production/igence Virtual Architect	ne platforms, helicopters, and the MV-22. The system and deny enemy radio communications during into existing armored vehicle assets, currently M1165s. E Compartmented Information Top Secret/Sensitive It incorporates advanced networking technologies that at and video teleconferencing within the Department of Iligence that significantly enhances the detail and both tactical and garrison environments. This manipulation, TS/SCI data dissemination between DoD ture (JIVA) and Net-Meeting Point-to-Point video

Exhibit P	-40a, Budge	et Item Jus	stification fo	or Aggregat	ed Items		Date:	May 2009	
Appropriation / Budget Activity					P-1 Item Nomencl	ature:			
Procurement, Marine Corps (1109)	/ Communicat	tions and Elec	tronic Equipme	ent (4)			Intelligence Suppo	ort Equipment	
Procurement Items	Code	UOM	Prior Years	FY 2008 (\$M)	FY 2009 (\$M)	FY 2010 (\$M)	FY 2010 OCO		
BATS	Α	D	0.0	0.000	4.435	0.000	4.901		
JWICS	Α	D	1.411	1.759	0.826	0.867	0.000		
JSTARS	А	D	0.0	0.000	2.381	0.505	0.429		
TSCM	А	D	3.286	2.339	0.000	1.382	0.000		
HIDE	А	D	0.0	0.000	2.220	0.000	0.000		
Ground Counter Fire Sensor	А	D	0.0	0.000	0.800	0.000	0.000		
Intelligence Support Equipment	А	D	0.0	0.000	3.732	0.000	0.000		
Radbn Mods Stingray	Α	D	0.0	0.000	0.000	0.000	0.515		
TCAC	А	D	0.0	0.000	4.007	0.916	0.168		
Totals			4.697	4.098	18.401	3.670	6.013		
Active			4.697	4.098	18.401	3.670	6.013		
Reserves			0.000	0.000	0.000	0.000	0.000		

Exhibit P-5 Cost Analysis			Budget Activity/S Marine Corps (12)		nications and E	Electronics		Nomenclature		Weapon Syst	em Type:		Date: May	2009
Wasnan System		Prior Yrs		FY 08			FY 09			FY 10			FY10 OCO	
Weapon System Cost Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
MTSS MTSS Systems Platform Systems Hardware/Software			12424	Var	· Var	6000	Var	Var				16500 1500		
DCGS Hardware - Servers Hardware - Workstations Mod Kits COTS Items												5000	Var	Var
ILS Equipment Installation Integrated Logistic Support Program/Documentation Support						115			393 142			404		
Tier I UAS - Raven B UAS Components Government Furnished Equipment -Contractor Support	А	37472 3444 803				11654 2700 450 544	98 VAR VAR	118913 VAR VAR						
TROJAN SPIRIT LITE Mobile Trojan Spirit Trojan Spirit Lite - Program Management Support - Integrated Logistic Support	А	9516 1582 2053	2115 202			5940 214 344	3	1980000	107					
ACTIVE RESERVES		54870	24053			27961			642			23404		

Exhibit P-5,			Budget Activity/S					Nomenclature		Weapon Syst	em Type:		Date:	
Cost Analysis			Marine Corps (11		ation and Elec	tronics Equipment (4)		nce Support Ed	quipment					2009
Weapon System		Prior Yrs		FY 08			FY 09			FY 10			FY10 OCO	
Cost Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
TRSS PIP	Α													
UNATTENDED GROUND MINIATURE														
SENSOR (UGMS)														
Encoder Transmitter Unit II		7244	6167	1263	4883		.,	.,						
Detectors		2078	6288	Var	Var	660	Var	Var						
Radio Repeater			5032	192	26209									
Hand Held Programmer Monitor		0000	941	65	14477									
Thermal Imagers		9226 2998	4496 22333	139 21	32345 1063467									
Sensor Mobile Monitoring Systems TRSS Test Set		2998	103	3	34350									
Single Battery Power Units		3298	3923	3082	1273									
Iridium Modems for SDR II		3290	1189	Var	Var									
Laptops and Software		125	1109	Val	Val	1122	136	8250						
Imagers Phase 1 & 2		125	4755	Var	Var	5926								
Sensor Upgrade/Spares			1514	Var	Var	3920	100	39233						
Blue Radio NRE/MCSR/CSR/HHPM		2050	1959	Var	Var				1933	Var	Var			
- Technical Documentation		2365	1959	vai	vai	625			698		Vai			
- Software/Instructor Support\MCSC		2303				340			030					
- Eng/ALA Support						354								
- Project Management		4295	3565			3280			2772					
1 Tojost Management		4200	0000			0200			2,,,2					
Team Portable Collection System	Α	9545												
Program Management		6687				1500								
Upgrades						1146								
Mod Kit		2183												
ILS		3550				798								
Training		364												
TPCS Systems			6000	10	600000	5850	9	650000						
Spares		2084	1463	Var	Var									
Long Lead Items		2785	1260	Var	Var				858	Var	Var			
Program Support														
Intelligence Equipment Readiness														
Video Exploitation Workstation						1278	Var	Var						
CATEIS (software)														
Integrated Logistic Support			2024											
Tech Documentation			2331			260			1407					
Eng/Program Mgmt Support			2000			202			3312					
Topographic Production Capability														
System Upgrades			15174	2	7587									
Perpherials			2066	Var	Var									
Hardware/Software Upgrades						2760	Var	Var						
Program Support		679	1841			440								
TOTAL		61556	94400			26541			10980			0		
ACTIVE		61556	94400			26541			10980					
		<u> </u>											I	l

Exhibit P-5,			Budget Activity/S					P-1 Line Item			Weapon Syste	em Type:	Date:	
Cost Analysis			Marine Corps (11	•	ications and E	lectronics Equ	. ,	Intellige	nce Support E					2009
Weapon System		Prior Yrs		FY 08			FY 09			FY 10			FY10 OCO	
Cost Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
TEG														
TEG-M Upgrades														
TEG- M Refresh		7504	8530	3	2843333									
TEG EWS		400	640	16	40000									
TEG RWS		600	1040	26	40000	600	15							
TIGDL-II		5400	900	1	900000	538	89	6045						
TEG RWS peripheral/sw license		1582												
TIGDL-II Support		393												
Common Imagery Processor (CIP) Upgrade		1590	1692	3	56400									
Integrated Logistics Support		1722	1400											
TES 8.X-9.X Baseline		1200												
Mods/Integration		1200												
Video Scout Capability			1658	Var	Var	221	Var	Var						
Program Management		1504	392											
Technical Documentation		902	391											
Program Support			2924											
Intelligence Analysis System (FOS) IOS Refresh (IOSV2A) IOS Refresh (IOSV3) Program Technical Support Eng/Mgmt Support						787 130 142	14	562000	1536 550 584		32000	768 550 546		32000
Radio Recon Equipment Program (RREP) SS-3 Upgrades Special Purpose Equipment Program Support Next Generation Systems		3739 3344 1335	1426 481	Var	Var	2388 3528 1329	Var Var			Vai	· Var			
TOTAL ACTIVE* RESERVES*		31215 31215	21474 21474			9663 9663			3751 3751			1864 1864		

Wide Field of View Persistent Surveillance (WFVPS)	nitCost \$
Cost Elements	nitCost \$
Surveillance (WFVPS) Sensor Upgrade 3500 13000 Var Var Var Support S	
Program Support 500 3189 811	
Program (CIHEP) - Hardware Upgrades - Software Upgrades - Software Upgrades - Surveillance Ugrades - Ancilliary Equipment - Program Support - Data Processing Module - Tactical SATCOM Set SATCOM Set - Mark Sattle	
- Hardware Upgrades	
- Software Upgrades	
- Surveillance Ugrades - Ancilliary Equipment - Program Support - Data Processing Module - Tactical SATCOM Set - Commerical Handheld SATCOM Set - Surveillance Ugrades - 1247	
- Ancilliary Equipment	
- Program Support	
- Data Processing Module - Tactical SATCOM Set - Commerical Handheld SATCOM Set 2315 2800 Var Var	
- Tactical SATCOM Set 5039 - Commerical Handheld SATCOM Set 2315 2800 Var Var	l
SATCOM Set 2315 2800 Var Var	,
SATCOM Set	
MSIDS 17997 1 1 1 1 1 1 1 1 1	
Suites 2278 Var Var 200 Var	Var
Data Controllers 500 Var Var	
Software 108 Var Var 200 Var Var Var	
NVD Adapters 9 Var Var 300 Var	Var
Camera Equipment 336 Var Var 1803 Var	Var
Computers 200	
CLS 325 335 150	
Program Support 1463 2737 2892 213	
CESAS	
Program Management 1496	
ILS 1200 1200 1200 1200 1200 1200 1200 120	
System Upgrades 6180 Var Var	
Remote Video Viewing Terminal (Video Scout) 23237 600 387288	
VS Training 1363 VAR VAR	
TOTAL 41267 60991 19307 15132 2866	
ACTIVE 41267 60991 19307 15132 2866	

Exhibit P-5, Cost Analysis			Budget Activity/Se larine Corps (110		itions and Electro	onics Equipment (4)		P-1 Line Item No	omenclature: telligence Support Equipme	ent	Weapon Syster	m Type:	Date: May	2009
Weapon System		Prior Yrs		FY 08			FY 09			FY 10	•		FY10 OCO	
Cost Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
Intelligence Broadcast Receiver JTT System Upgrades USB ENTR Program Support	A		441			1450 1698	29	50000	2200 1206	55	400000	3400	85	40000
Modification Kit C4I (BATS) Suites - VSAT - LOS Radios - Lan Suites - Program Support						32220 200 450 225 1845	Var Var Var	Var Var Var						
TOTA ACTIV			441 441			38088 38088			3406 3406			3400 3400		

		nt History and Planning					Date:	May 2009	
W	Veapon System Type:			P-1 Line Item Nomenclature	i.			Way 2000	
etronics	roupon Gyotom Type					gence Supp	ort Equipment		
Location	Contract Method & Type	Location of PCO	Award Date	Date of First Delivery	OTY Fach	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issue Dat
2004	Communication a 1)po	200411011 010	/ mara Bato	Date of the Delivery	Q	0 000t ¢	opoco /traii.	Date Herein Ha	7.1. 100d0 Bu
ni Valley, Ca	FFP	PM-UAS, Redstone, AL	Jan-09	Sep-09	98	118913	Yes	N/A	N/A
CA	FFP	MCSC, Quantico, VA	Aug-08	Sep-08	600	387288	Yes	N/A	N/A
St Peterburg,	FFP	US. Army, Ft. Monmouth, NJ	Oct-09	Apr-10	29	50000	Yes	N/A	N/A
e Office (NRO),	FFP	Chantilly, Virginia	Oct-10	Jul-11	140	400000	Yes	N/A	NA
, sc	FFP	Charleston, SC	Jan-09	May-09	51	40000	Yes	N/A	N/A
	FFP	SPAWAR, Charleston, SC	Jan-09	Apr-09	14	56200	Yes	N/A	N/A
	FFP	SPAWAR, Charleston, SC	Nov-09	Feb-10	72	32000	Yes	N/A	N/A
e	e Office (NRO),	e Office (NRO), FFP	e Office (NRO), FFP Chantilly, Virginia SC FFP Charleston, SC FFP SPAWAR, Charleston, SC	e Office (NRO), FFP Chantilly, Virginia Oct-10 Oct-10 SC FFP Charleston, SC Jan-09 FFP SPAWAR, Charleston, SC Jan-09	e Office (NRO), FFP Chantilly, Virginia Oct-09 Apr-10 Jul-11 SC FFP Charleston, SC Jan-09 May-09 FFP SPAWAR, Charleston, SC Jan-09 Apr-09	e Office (NRO),	e Office (NRO), FFP Charleston, SC Jan-09 Apr-09 14 56200	e Office (NRO), FFP Charleston, SC Jan-09 Apr-09 14 56200 Yes	e Office (NRO), FFP Charleston, SC Jan-09 Apr-09 14 56200 Yes N/A SPAWAR, Charleston, SC Jan-09 Apr-09 14 56200 Yes N/A

	Exhibit	P-5a, Budget Procur	ement History and Pla	nning				Date:	May 2009	
Appropriation / Budget Activity/Serial No):	Weapon System Type:			P-1 Line Item Nomenclature	e:			Iviay 2003	
Procurement, Marine Corps (1109) / Cor Electronics Equipment (4)	mmunications and					Intelli	gence Supp	ort Equipment		
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method & Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issue Date
TROJAN SPIRIT LITE										
FY08 Trojan Lite	US Army CERDEC I2WD	FFP	Fort Monmouth, NJ	Jun-08	Aug-08	3	705000	No	N/A	N/A
FY09 Trojan Lite	US Army CERDEC I2WD	FFP	Fort Monmouth, NJ	Oct-09	Mar-10	3	1980000	Yes	N/A	N/A
TRSS PIP										
FY-08 Encoder Transmitter Unit	L3, Communications, NY,	FFP	SPAWAR, Charleston, SC	Jun-08	Jan-09	1263	4883	Yes	N/A	N/A
FY08 Radio Repeater Mod Kit	NOVA, Cincinnati Ohio	FFP	SPAWAR, Charleston, SC	May-08	Dec-08	192	26209	Yes	N/A	N/A
FY08 Hand Held Programmer Monitors	NOVA, Cincinnati Ohio	FFP	SPAWAR, Charleston, SC	May-08	Dec-08	65	14477	Yes	N/A	N/A
FY08 Thermal Imagers	NOVA, Cincinnati Ohio	FFP	SPAWAR, Charleston, SC	May-08	Dec-08	139	32345	Yes	N/A	N/A
FY08 Ground Sensor Surveillance Vehicle	Various	FFP	SPAWAR, Charleston, SC	Aug-08	Jul-09	21	1063467	Yes	N/A	N/A
FY08 TRSS Test Set	AeroFlex, Witchita, KS	FFP	TMDE, Quantico, VA	May-08	Sep-08	3	34350	Yes	N/A	N/A
FY08 Battery Power Units	Various	FFP	SPAWAR, Charleston, SC	May-08	Sep-08	3082	1273	Yes	N/A	N/A
FY09 Laptops	MCHS, Quantico, VA	FFP	MCHS, Quantico	Jan-09	Apr-09	136			N/A	N/A
FY09 Imagers Phase 1 and 2	ARL, Adelpia MD	FFP	ARL, Adelphia, MD	Mar-09	Dec-09	100	59255	Yes	N/A	N/A
TPCS - MPC										
FY08 TPCS Systems	Various	FFP	SPAWAR, Charleston, SC	Mar-08	Jun-08	10	600000	YES	N/A	N/A
FY09 TPCS Systems	Various	FFP	SPAWAR, Charleston, SC	Jan-09	Aug-09	9	650000	YES	N/A	N/A
REMARKS:										

	Exhibit P-5a, Budget	Procureme	nt History and Pl	anning				Date:	May 2009	
Appropriation / Budget Activity/Seri Procurement, Marine Corps (1109) Equipment (4)	rial No:) / Communications and Electronics	Weapon Sys	tem Type:		P-1 Line Item		e: Intelligence Su	pport Equipmen	t	
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method & Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issue Date
<u>TPC</u>										
FY07 TPC Common Workstation	Northrop Grumman, TASC	FFP	MCSC, Quantico VA	May-07	Sep-08	78	52782	Yes	N/A	N/A
FY07 TPC Common Server	Northrop Grumman, TASC	FFP	MCSC, Quantico VA	May-07	Sep-08	21	131476	Yes	N/A	N/A
FY08 System Upgrades	TBD	FFP	MCSC, Quantico VA	Aug-08	Jan-09	2	7587	Yes	N/A	N/A
<u>TEG</u>										
FY07 TEG-M Refresh	Northrop Grumman, Balt, MD	CPAF	Alexandria, VA	Dec-07	Oct-08	4	1876000	No	N/A	N/A
FY07 TIGDL-II	Various	FFP	SPAWAR, Charlestor	Dec-07	Oct-08	4	1350000	No	N/A	N/A
FY07 CIP	Northrop Grumman, Balt, MD	CPAF	Alexandria, VA	Dec-07	Oct-08	5	252000	No	N/A	N/A
FY08 TEG-M	Northrop Grumman, Balt,MD	CPAF	Alexandria,VA	Jul-08	Apr-09	3	2843333	No	N/A	N/A
FY08 TEG-EWS	Northrop Grumman, Balt,MD	CPAF	Alexandria,VA	Jul-08	Apr-09	16	40000	No	N/A	N/A
FY08 TEG-RWS	Northrop Grumman, Balt,MD	CPAF	Alexandria,VA	Jul-08	Sep-08	26	40000	Yes	N/A	N/A
FY08 TIGDL II	Various	FFP	SPAWAR, Charlestor	Aug-08	Aug-09	1	900000	Yes	N/A	N/A
FY08 CIP	Northrop Grumman, Balt, MD	CPAF	Alexandria, VA	Sep-08	Feb-09	3	564000	No	N/A	N/A
FY09 TEG-RWS	Northrop Grumman, Balt,MD	CPAF	Alexandria,VA	Jul-09	Sep-09	15	40000	Yes	N/A	N/A
FY09 TIGDL II	Various	FFP	SPAWAR, Charlestor	Aug-09	Aug-10	89	6045	Yes	N/A	N/A
<u>CIHEP</u> FY09 Hardware Upgrades FY09 Software Upgrades	Various Various	FFP FFP	SPAWAR, Charlestor SPAWAR, Charlestor	Nov-08 Nov-08	Apr 09 Apr 09	282 380		Yes Yes	N/A N/A	N/A N/A
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TRSS - Radio Repeater	NOVA, Cincinnati, Ohio						10	00	175	5	250					7			7						1	14		Е		
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TRSS - Handheld Programmer Monitors	FY08	MC	65		65	65							Α							25	25	15					İ			0
TRSS - Thermal Imagers	FY08	MC	139		139	139							Α							40	40	40	19				1			0
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TIGDL-II		FY07	MC	4		4													4												0
TEG - CIP		FY07	MC	5		5													5												0
TEG-M		FY08	МС	3		3										Α									1		1		1		0
TEG-EWS		FY08	MC	16		16										Α									8				8		0
TEG - RWS		FY08	МС	26		26										Α		26													0
TEG - TIGDL II		FY08	MC	1		1											Α												1		0
TEG - CIP		FY08	МС	3		3												Α					1	1	1						0
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CIHEP Hardware Upgrades	Various						5	50	1:	50	2	82					1			5							6		Е		
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	Exhibit P-40, Bu	udget Item Justific	ation Sheet			Date:		May 20	009	
Appropriation / Budget Activit	y/Serial No:			P-1 Item Nome	enclature:					
Procurement, Marine Corps (1109) / Communication	s and Electronics Equipr	ment (4)				RQ-11 l	JAV		
Program Elements:		Code:	Other Related	Program Eleme	ents:					
0305232M/0305234M Marine Equipment	e Corps Communications	s A								
	Prior Years	FY 2008	FY 2009	FY2010	FY 2010 OCO	FY 2010 TOTAL				
Proc Qty	0.0									
Gross Cost		0.0	0.0	42.4	13.0	55.4				
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc (P-1)	0.0	0.0	0.0	42.4	13.0	55.4				
Initial Spares	0.0	0.0	0.0	0.0	0.0	0.0				
Total Proc Cost	0.0	0.0	0.0	42.4	0.0	55.4				
Flyaway U/C										
Wpn Sys Proc U/C										

TIER I - The TIER I program procures a capability for unmanned aircraft systems (UAS) to provide the company/detachment level with airborne reconnaissance to aid in detecting, identifying and engaging or avoiding enemy units. The UAS autonomously gather and transmit imagery of the tactical situation in near-real time at a range of up to ten kilometers. The Raven B UAS was selected as the material solution for the Tier I Block I requirement. Raven B is a five pound, hand launched, reusable vehicle with a wing span of 55 inches. The air vehicle flies at an altitude of 300-500 feet above ground at a speed of approximately 35 knots. This system has a maximum duration of 90 minutes. Raven B's interchangeable payloads, autopilot and propulsion system are also commercial-off-the shelf (COTS) subsystems. The Ground Control Station (GCS) uses a rugged hand controller connected to a communication control box. A Tier I Block 1 system consists of three Raven B air vehicles; one Ground Control Station (GCS); one Remote Video Terminal (RVT); one Reconnaissance, Surveillance, and Target Acquisition (RSTA) Kit; one Field Repair Kit (FRK); and one Initial Spares Package (ISP). The RSTA kit is used for mission planning, autonomous flight operations and mission product archiving. The FRK contains consumable items used during operations and maintenance. The ISP contains system spares used during operations and maintenance. Raven B is a joint US ARMY/USSOCOM Program. Funds will be allocated to replace the previously fielded TIER, Block 0 which are reaching the limit of operational life and provided initial issue spares. Additional OCO funds will be allocated to add additional systems in support of MARSOC OCO employment. Additionally, 100 initially fielded Tier I systems will be returned to the Digital Data Link Engineering Change Proposal (ECP) variant. FY07 and prior funding for TIER I is found in BLI 4747. FY08 funding resides in BLI 4747. FY10 resides in BLI 4757. In FY10 the Program Office expects to procure the balance of SURS

Tier II UAS - This is a combined Navy (PE 0305204N) and Marine Corps (PE 0305234M) budget submission. The Tier II/UAS is a new start program beginning in FY10 that will provide persistent, Intelligence, Surveillance, and Reconnaissance (ISR) support for tactical level maneuver decisions and unit level force defense/force protection for Navy ships and Marine Corps land forces. This system will fill the ISR capability shortfalls identified by the Navy Small Tactical Unmanned Aircraft System (STUAS) and Marine Corps Tier II UAS efforts. Consisting of four air vehicles, two ground control stations, multiple payloads, and associated launch, recovery and support equipment this system will support the Navy missions including building the Recognized Maritime Picture, Maritime Security Operations, Maritime Interdiction Operations, and support of Navy units operating from sea/shore in the GWOT and the Marine Corps close range (<50 nautical miles (nm)) Unmanned Aerial Systems (UAS) enabling enhanced decision-making and improved integration with ground schemes of maneuver. This submission is the Marine Corps portion of the program and has been coordinated with the Navy budget submission PE 0305204N. This program was moved to PE 0305234M in FY10.

Exhibit P-5		Appropriati	on/ Budget	Activity	/Serial No:			P-1 Line Ite	em Nomencla	iture:	Weapon S	System Type	Date:	
Cost Analysis			nt, Marine (Equipment		1109) / Com	munications	s and	R	Q-11 UAV				Ма	ay 2009
Weapon System		Prior Yrs		FY 08			FY 09			FY 10			FY10 OC	0
Cost Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
Tier I UAS														
Tier I System (3 Air Vehicles, 2 Ground Control Stations, 1 Remote Video Terminal)	Α								27360	171	160000	4800	30	160000
Components									436	VAR	VAR	951	VAR	VAR
Government Furnished Equipment									784	VAR	VAR	249	VAR	VAR
Tier I System DDL Retrofit Upgrade (ECP)												7000	VAR	VAR
TIER II UAS	Α													
System Procurement									5180		5180000			
Test Article									5500					
Test & Evaluation Support General Purpose Test Equipment									2310 723					
Program Support									110					
rogram capport										.,				
TOTAL									42403			13000		
ACTIVE	1								42403			13000		

1	Exhibit P-5a, Budget Procure	ement His	tory and Planning					Date:	M 0000	
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communicat			ystem Type:		P-1 Line It	em Nomer		-11 UAV	May 2009	
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method & Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issue Date
<u>FY10</u> Tier I	AeroVironment Inc, Simi Valley, CA	FFP	PM-UAS, Redstone, Al	Jan-10	Apr-10	171	160000	Y	N/A	N/A
Tier I	AeroVironment Inc, Simi Valley, CA	FFP	PM-UAS, Redstone, Al	Jan-10	Sep-10	30	160000	Υ	N/A	N/A
Tier II	TBD	TBD	TBD	TBD		1	5180000	TBD	TBD	TBD

REMARKS: Tier I UAS consists of the Raven B UAV and USMC GFE. The Raven B and all GFE is being procured using existing Army contracts. The USMC quantities are in addition to what the Army is procuring.

	EXHIBIT	P-21,	PRO	DDU	СТ	101	N S	СН	EDI	JLE											Date	э:				Ma	ay 2	:009				
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								PF	ROD	UCT	ΓIΟN	I RA	TE			PR	OCI	JRE	MEN	NT L	EAD	NITC	ΛES									
ITEM	Manufacturer'	s NAMI	E/LO	CAT	ION			MS	SR	EC	ON	N	ΙΑΧ		LT P	rior	ΑL	T Af Oct 1	ter	Ini	tial N PLT	Иfg	R	eordo fg PL			тс	TAL		Unit	t of N	leasur
Tier I UAS (FY10)	AeroVironm	ent, Sir	ni Val	lley,	CA			1	1	·	4		15					3			2			1				6		Eac	h	
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Tier I UAS		FY10	МС	17	1 0) 17	71				Α			15	15	15	15	15	15	15	15	15	15	15	6		Н	\vdash	\vdash		_	0
Tier I UAS		FY10		30			30				Α									15					Ů				F			0
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	Exhibit	P-40, Budget Iter	n Justifica	tion Sheet			Date:		May 2009	9	
Appropriation / Budget	Activity/Serial No:				P-1 Item Nomen	clature:	<u> </u>				
Procurement, Marine C	Corps (1109) / Communica	tions and Electronics E	quipment / 04				NIGHT	r vision equi	PMENT		
Program Elements:			Code:	Other Related	Program Elemen	ts:					
02	206211M Divisions (Marine	e)	Α								
	Prior Years	FY 2008	FY 2009	FY 2010	FY 2010 OCO	FY 2010 TOTAL					
Proc Qty											
Gross Cost	1444.1	178.6	73.7	10.4	12.6	22.9					
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc (P-1)	1444.1	178.6	73.7	10.4	12.6	22.9					
Initial Spares	1.1	0.0	0.0	0.0	0.0	0.0					
Total Proc Cost	1445.2	178.6	73.7	10.4	12.6	22.9					
Flyaway U/C											
Wpn Sys Proc U/C											

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FAMILY OF INDIVIDUAL OPTICS (FOIO) - Provides handheld, helmet mounted and weapons optics systems including various thermal, image intensifier, magnified optical, and laser range-finding, illuminating, and pointer functionalities. Replaces multiple single-purpose NVE currently fielded to the Marine Corps.

NIGHT VISION EQUIPMENT (NVE) - Consists of multiple optical and Electro-Optical (EO) systems to allow the dismounted Marine the ability to acquire, locate, identify, and engage targets during daylight and limited visibility conditions, and perform navigation and manual tasks during limited visibility conditions utilizing ambient or covert illumination. Current systems typically comprise of a single operating modality, such as direct viewing of visible wavelengths, low light image intensification (I2), or thermal imaging. Complementary systems, such as near-infrared laser pointers viewable only through I2 devices, provide additional enhancement of capabilities. A more recent development consists of "clip-on" EO systems allowing the use of alternative operating modes without removing or disrupting the alignment of the base optic, and minimizing the impact on employment techniques.

NIGHT VISION MODIFICATION (NVM) - Provides funding to procure and install modification kits and provide essential services to maintain and improve quality of service, performance, safety, and life-cycle support of in excess of 620,000 legacy Principle End Items (PEI). The NVM provides a means of maintaining and upgrading the Marine Corps' NVE through technological advances and to develop Engineering Change Proposals (ECPs) for legacy PEIs.

PRINCIPLE END ITEM (PEI) REPROCUREMENT - Provides funding to procure systems lost or damaged beyond economical repair due to combat, increased training, and normal use. The focus of PEI Reprocurement is to support those items that have no active procurement program to quickly replenish inventory due to combat losses and high rate of usage.

SNIPER SYSTEM CAPABILITY SETS (SSCS) (OPTICS) - Provides funding to procure Sniper Day/Night Target Acquisition and Surveillance (SDNTAS) devices for the Marine Corps. The SDNTAS capabilities provide the scout sniper the ability to detect, recognize, identify and accurately engage targets day, night and during obscure battlefield conditions to the maximum effective ranges of the sniper's weapon in all environments where a sniper may be employed. The SSCS funding will provide funding for the following systems: The Scout Sniper Day Scope (SSDS) is a variable power scope that provides the scout/sniper with the capability to clearly, easily and quickly acquire and engage close-in targets, and targets out to the maximum effective range of the host weapon. The Scout Sniper Observation Telescope (SSOT) is a variable powered observation telescope with a reticule similar to the SSDS allowing the scout sniper shooter-observer team to observe and engage targets near and far. The Scout Sniper Mid Range Night Sight (SSMRNS) is an in-line, image intensification device that clips to the sniper rifles in front of the SSDS and provides the capability of night vision to the scout/sniper teams. The Sniper Observer Night Observation Device (SONOD) is a lightweight, night vision device for detecting, recognizing, observing, identifying, and ranging targets during reduced light. The SONOD will be used in conjunction with the SSOT. The Scout Sniper Urban Night Sight (SSUNS) is a lightweight, weapon mounted and battery operated imaging device for engagement of targets at night and low light conditions. The SSUNS shall be used in conjunction with the SSDS. This program moves to BLI 222000 Weapons and Combat Vehicles Under \$5M in FY10.

SCOUT SNIPER CAPABILITY SET (WEAPONS)- Provides for a Rapid Engagement Precision Rifle with Optics and Support Equipment. Also provides for the initial purchase of the Long Range Sniper Rifle with Optics and Support Equipment.

RIFLE COMBAT OPTICS - Handheld binocular used for target detection, recognition and identification.

Exhibit P-40a, B	Budget Item Ju	stificati	on for Aggre	egated Items			Date:	May 2009	
Appropriation / Budget Activity Procurement, Marine Corps (1109) / Co	mmunications and	Electronic	s Equipment / 0-	4	P-1 Item Nomeno		HT VISION EQUIP	MENT	
Procurement Items		UOM		FY 2008	FY 2009	FY 2010	FY 2010 OCO		
PEI Reprocurement	A	D	1.900	0.000	1.096	0.000	0.000		
		Q	VAR		VAR				
Sniper System Capability Sets (Optics)	Α	D	15.200	18.635	3.156	0.000	0.000		
		Q	VAR	VAR	VAR				
Rifle Combat Optics	A	D	0.000	2.400	0.000	0.000	0.000		
		Q		6,857					
Totals			17.100	21.035	4.252	0.000	0.000		
	A ativa		17 100	24 025	4.252	0.000	0.000		
	Active Reserve		17.100	21.035	4.252	0.000	0.000		
	11000110								

Exhibit P-5	Appropri	ation/ Budget Acti	vity/Serial No	:		P-1 Line It	em Nomen	clature:	Weapon S	ystem Type	9	Date:		
		ment, Marine Corp		mmunicatio	ons and	Night	Vision Equi	pment					May 2009	
Cost analysis Weapon System	Electron	ics Equipment / 04 Prior Yrs	+	FY 08			FY 09			FY 10			FY 10 OCC)
weapon system	ID CD	TotalCost \$000	TotalCost	Qty Each	UnitCost	TotalCost	Qty Each	UnitCost	TotalCost	Qty Each	UnitCost	TotalCost	Qty Each	UnitCost
Cost Elements		TotalCost \$000	\$000	QIY EACI	\$	\$000	QIY EACIT	\$	\$000	Qly Each	\$	\$000	Qly Each	\$
Family of Individual Optics		8590	14545	VAR	VAR	11593	VAR	VAR	2295	VAR	VAR			
Night Vision Equipment			140484	VAR	VAR	27383	VAR	VAR	0			12570	VAR	VAR
Night Vision Modifications		32129	2505	VAR	VAR	8950	VAR	VAR	8065	VAR	VAR			
Scout Sniper Capability Set (Weapons)						21500	VAR	VAR						
	TAL	40719	157534			69426			10360			12570		
AC* RESE	TIVE RVE	40719	157534			69426			10360			12570		
KESE	IV 4 L				<u> </u>							<u> </u>		

		Exhibit P-40, Budget Iten	n Justification	Sheet				Date:		May 2009		
Appropriation / Budget Activ	rity/Serial No:					P-1 Item Nomer	nclature:					
Procurement, Marine Corps	(1109) / Communi	cations and Electronics Equipn	nent (4)				COMMO	ON COMPUT	ER RES	OURCES		
Program Elements:				Code:	Other Relate	d Program Elem	ents:					
0206313M Marine Corp	os Communication	Equipment		Α								
	Prior Years		FY2008	FY 2009	FY 2010	FY 2010 OCO	FY 2010 Total					
Proc Qty												
Gross Cost	605.2		164.4	170.1	115.3	23.1	138.4					
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	605.2		164.4	170.1	115.3	23.1	138.4					
Initial Spares	0.0		0.0	0.0	0.0	0.0	0.0					
Total Proc Cost	605.2		164.4	170.1	115.3	23.1	138.4					
Flyaway U/C												
Wpn Sys Proc U/C											·	

MARINE CORPS COMMON HARDWARE SUITE (MCHS): Provides high performance and general purpose client workstations (desktop/laptop), file application servers and other computer platforms to support the Operating Force (OPFOR). MCHS provides support to two principal groups: 1) Approximately 50 United States Marine Corps (USMC) Tactical and Functional Programs of Record (PORs) that are not covered by Navy-Marine Corps Intranet (NMCI); and 2) non-tactical, non-NMCI supported entities such as Marine Forces, Europe/ Marine Corps Forces, Korea and stand-alone Marine Corps units and schoolhouses. The goal of the program is to enhance overall Information Technology (IT) system interoperability and lower the total cost of ownership by centralizing the Marine Corps-wide procurement of workstations and file application servers, reducing the number of different configurations of computers, and providing worldwide integrated logistics support for all fielded MCHS hardware.

MARINE CORPS ENTERPRISE INFORMATION TECHNOLOGY SERVICES (MCEITS): Provides an overarching portfolio of capabilities to deliver "Power to the Edge" for the Marine Corps. Born from an effort to establish a Continuity of Operations Plan (COOP) of Headquarters Marine Corps (HQMC) Automated Information Systems (AIS), MCEITS will realign the existing USMC environment of applications, databases, networks, and facilities into an integrated architecture and programs to deliver new information technology capabilities based on a common infrastructure and shared services. MCEITS is a unifying framework of both the Net-Centric Enterprise Services (NCES) to be delivered, and the infrastructure and systems which must be deployed to enable delivery of those services. Initially it will encompass the Operational, Technical and Systems architectures of the garrison environment. Ultimately it will extend to transform Command and Control (C2) both in garrison and in the deployed environment.

Combined with policy, procedure, and standards provided by HQMC Command, Control, Communications and Computers (C4), MCEITS will allow for achievement of architectural standardization, consolidated management, seamless interoperability, and access to the data residing in our currently fielded applications (business and tactical). MCEITS enables access to enterprise information and provides the ability to collaborate and share information across the business and warfighter domains.

The Marines.mil sub-project under MCEITS represents the Marine Corps brand as the global public web communications strategy. This effort is the enterprise solution for the centralized management of more than 400 public web sites; delivering news, images, press releases, audio, video, administrative and career related information, products and support services, and Community Relations activities. Marines.mil supports the Commandant's strategic communications initiative providing a means for communicating and engaging with active duty, reserve and retired Marines, as well as their families, civilian Marines and the public. Based on a Commander Marines Corps Systems Command (MARCORSYSCOM) memorandum dated 19 February 2009, MCEITS will manage the Marines.mil system and be established as the hosting site to include the sustainment of Interim Portal Services (IPS).

Exhibit P-40, Budget Item Justification Sheet	Date: May 2009
Appropriation / Budget Activity/Serial No:	P-1 Item Nomenclature:
Procurement, Marine Corps (1109) / Communications and Electronics Equipment (4)	COMMON COMPUTER RESOURCES

TOTAL FORCE STRUCTURE MANAGEMENT SYSTEM (TFSMS): The Marine Corps authoritative data source for force structure data and provider of the Marine Corps' Tables of Organization and Equipment. TFSMS defines present and future Marine Corps force structure, establishes the Marine Corps baseline for readiness reporting, justifies resource requirements and allocation and enables Marine Corps compliance with the Joint Staff and Office of the Secretary of Defense (OSD) initiative to standardize force structure representation by providing the Marine Corps Global Force Management Organizational Server. TFSMS is a web-based system built on the Oracle E-Business suite and employs Cognos Report Net Business Intelligence software for the development of standard and ad-hoc queries.

MARINE CORPS SOFTWARE ENTERPRISE LICENSE MANAGEMENT SYSTEM (MCSELMS): The concept of enterprise licensing is based on commercial "Best Practices" and focuses on reducing total ownership costs. MCSELMS is the USMC implementation of the Department of Defense (DOD) Enterprise Software (S/W) Initiative (ESI) responsible for managing enterprise licensing contract vehicles for Oracle, Microsoft, Cognos, Red Hat, VMware, Siemens, Adobe, Mercury, Jabber, Circadence, and BelArc, to include funding for outyear maintenance support of the Marine Corps S/W investment portfolio. MCSELMS supports tactical and non-tactical enterprise contracts worldwide in accordance with DOD ESI guidelines. MCSELMS provides firm fixed price enterprise contract vehicles offering competitive pricing and volume discounts.

MARINE CORPS ENTERPRISE NETWORK OPERATIONS SECURITY CENTER (MCNOSC): Operates and defends the Marine Corps Enterprise Network (MCEN) and provides secure network communications for Marine forces worldwide. MCNOSC is the Marine Corps Service Component to the Joint Task Force - Global Network Operations and provides network Command and Control (C2) and operational support to Marine organizations, NMCI and to deployed and tactical forces; defends all deployed Marine tactical and garrison networks; supports Marine Corps mainframe applications, which are critical to warfighting and enterprise operations; provides technical support for the DOD-mandated solution for record message traffic; supports the solution for encrypting network communications and authoritatively identifying people and computer resources.

This line supports the MCNOSC and includes: An alternate capability so that it is no longer a single point of failure; an automated capability to reduce the response time and speed the accuracy of reporting enterprise-wide network defensive actions; supporting and defending Marine networks outside of NMCI; sustaining the DOD-mandated Defense Message System (DMS) capability; and ensuring that the MCEN operating system for Marine Forces, not covered by NMCI, is consistent with that used by NMCI.

SECURE OPERATIONAL NETWORK INFRASTRUCTURE CAPABILITY (SONIC): Provides funding to test and integrate secure data network initiatives (Secure Internet Protocol Routing Network (SIPRNET) and related classified networks) under a cohesive acquisition program of record to sustain and improve critical C2 network operations. This provides engineering and technical service for cohesive enterprise management, certification of critical infrastructure and operational capabilities in order to enable secure connectivity from the headquarters to the lowest tactical edge. Provides capability to evaluate critical advanced technology to support mission critical, IT secure network-dependent initiatives and programs.

NEXT GENERATION ENTERPRISE NETWORK (NGEN): An enterprise network that will provide secure, net-centric data and services to both the Navy and Marine Corps personnel. NGEN forms the foundation for the DON's future Naval Network Environment (NNE) that will be interoperable with other DOD provided Net-Centric Enterprise Services. NGEN will provide funding to transition from the current NMCI environment and capability with no break in service.

Exhibit P	-40a, Bu	dget Item J	ustificatio	on for Ago	gregated	Items	Date:	May 2009	
Appropriation / Budget Activity Procurement, Marine Corps (1	109) / Com	nmunications a	nd Electronic	s Equipmen	t (4)	P-1 Item Nomen	OMPUTER RE	SOURCES	
Procurement Items	Code	Prior Years	FY2008	FY2009	FY2010	FY 2010 OCO			
Total Force Structure Management System (TFSMS)	A	3.800	2.574	0.337	0.000	0.000			
Marine Corps Software Enterprise License Managememt System (MCSELMS)	A	0.000	0.334	0.363	0.000	0.000			
TOTAL		2 800	2 000	0.700	0.000	0.000			
TOTAL		3.800	2.908	0.700	0.000	0.000			

Exhibit P-5 Cost Analysis				•	mmunications	and Electroni	cs		Nomenclatu OMPUTER R		Weapon Sys	item Type:	Date: May	2009
Weapon System		Prior Yrs	+)	FY08			FY09			FY10		F	Y 2010 OC	0
Cost Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
MARINE CORPS COMMON HARDWARE SUITE (MCHS)														
Tactical and Non-Tactical MCHS Workstations/Servers	Α	268567	145284	VAR	VAR	137463	VAR	VAR	17861	VAR	VAR	15205	VAR	VAR
MARINE CORPS ENTERPRISE INFORMATION TECHNOLOGY SERVICES (MCEITS) Hardware/Software for Enterprise IT platforms Tactical Collaboration Work Suite (TCWS) Upgrades	А	14685	12678	VAR	VAR	4375 21200	VAR VAR	VAR VAR	3473	VAR	VAR	2800 5100	VAR VAR	
MARINE CORPS ENTERPRISE NETWORK OPERATIONS SECURITY CENTER (MCNOSC) Alternate Network Operations Center (Alt NOC)	А	6442							4340	VAR	VAR			
MARINE FORCES-INTEGRATED NETWORK OPERATION (INO) (COMPUTER NETWORK DEFENSE)	Α	157							155	VAR	VAR			
INFORMATION ASSURANCE & VERIFICATION ALERT (IAVA) Tracking Software	Α	121							120	VAR	VAR			
Network Operating Systems & Active Directory	Α					2379	VAR	VAR						
Defense Messaging System Central Operations Center (DMS COC)	Α					173	VAR	VAR						
MCHS & NETWORK INFRASTRUCTURE	Α	15220	3569	VAR	VAR	3798	VAR	VAR	4467	VAR	VAR			
SECURE OPERATIONAL NETWORK INFRASTRUCTURE CAPABILITY (SONIC)	А								18250	VAR	VAR			
NEXT GENERATION ENTERPRISE NETWORK (NGEN)	Α								66597	VAR	VAR			
TOTAL ACTIVE RESERVE RESERVE QUANTITY	D D	305192 305192	161531 161531			169388 169388			115263 115263			23105 23105		

	E	Exhibit P-40, Budge	Item Justifica	ation Sheet			Date:		May 20	009	
Appropriation / Budg	et Activity/Se	rial No:				P-1 Item Nomen	clature:				
Procurement,	Marine Corps	(1109) / Communica	tions and Elec	tronics Equip	oment (4)		COM	MMAND PO	OST SYS	TEMS	
Program Elements:			Code:	Other Rela	ted Program Ele	ements:					
0206313M Marine C	orps Commur	nication Equipment	Α								
	Prior Years	FY 200	8 FY 2009	FY 2010	FY 2010 OCO	FY2010 TOTAL					
Proc Qty											
Gross Cost	303.2	75.2	141.3	49.8	23.0	72.9					
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc (P-1)	303.2	75.2	141.3	49.8	23.0	72.9					
Initial Spares	1.5	0.0	0.4	15.7	0.0	0.0					
Total Proc Cost	304.7	75.2	141.7	65.5	23.0	72.9					
Flyaway U/C											
Wpn Sys Proc U/C							_				

Global Command and Control System (GCCS) - Consists of Command and Control (C2) subsystems which provide Combatant Commanders, the Joint Staff and other Tactical Commanders a near real time picture of the battle space necessary to conduct joint and multinational operations of U.S. Military Forces. The FY10 initiative will replace aging GCCS capability with both hardware and software. This will provide for increased capabilities needed to run new software upgrades for continued interoperability with Joint forces. FY09 funding includes \$0.500 to procure 130 TCO and 38 GCCS Clients for the Reserve Component.

Tactical Combat Operations System (TCO) - TCO is the principal tool within the Marine Air-Ground Task Force (MAGTF) for situational awareness through distribution of the Common Tactical Picture (CTP). It supports tactical operations providing information via high speed computer systems in a timely manner and includes the Intel Operations Workstations/Servers. Increases in PMC funding are to allow for system refresh and replacements to match the programs acquisition objective. The FY10 initiative will replace aging TCO capability with both hardware and software. This will provide for increased capabilities needed to run new software and software upgrades for continued interoperability with Joint forces.

Exhibit P-40, Budget Ite	m Justifica	ition Sheet		Date: May 2009
Appropriation / Budget Activity/Serial No:			P-1 Item Nomer	nclature:
Procurement, Marine Corps (1109) / Communication	ns and Elect	tronics Equipment (4)		COMMMAND POST SYSTEMS
Program Elements:	Code:	Other Related Program Ele	ements:	
0206313M Marine Corps Communication Equipment				

Advanced Field Artillery Tactical Data Systems (AFATDS) - Consists of fire support C2 software fielded on Marine Corps common hardware. AFATDS provides the MAGTF with the ability to rapidly integrate all supporting arms assets into maneuver plans via a digital link utilizing currently fielded communications equipment. AFATDS automates the fire planning, tactical fire direction, and fire support coordination required to support maneuver from the sea and subsequent operations ashore. The Backup Computer System (BUCS) Block I is a small, portable, Ruggedized Personal Data Assistant (R-PDA) that is capable of performing and displaying artillery survey computations and artillery technical firing solutions, safety computations and serve as a backup for the technical fire direction functions of AFATDS. The Mobile Tactical Shelter (MTS) serves as environmental protection for units operating AFATDS in tactical environments. Changes in funding through FYDP is based on cyclical hardware refresh cycles of all three subcomponents of the AFATDS suite of equipment. In years where cycles are gapped there is a low level of funding. During years where cycles converge there is a high level of PMC support. The AFATDS Program Office will be conducting a complete refresh of AFATDS hardware during the FY09-10 timeframe. Successfully fielding these systems will require new equipment training and robust logistical support for shipping and procurement.

Target Location Designation & Hand-Off System (TLDHS) - Includes the Military Ruggedized Tablet (MRT) and provides the Forward Observer (FO), Forward Air Controller (FAC), Joint Tactical Air Controller (JTAC), and Naval Gunfire Spotter (NGFS) with the ability to observe their area of interest, locate ground targets quickly and accurately, and digitally request and coordinate target engagements by Field Artillery (FA), Close Air Support (CAS), and Naval Surface Fire Support (NSFS). TLDHS will also provide the capability to designate targets for laser-guided munitions and laser spot trackers. The FY10 initiative will procure additional systems and also be utilized for HW refresh and new equipment training for newly fielded systems.

Marine Corps Information Operation Center (MCIOC) - The MCIOC supports the MAGTF C2 program providing tactically focused, deployable, Information Operation (IO) support teams who assist in formulating requirements and "reach-across" capability to support joint operations.

Capset I COC Refresh is the Marine Expeditionary Force Combat Operations Center (MEF COC) and is an Urgent Universal Needs Statement (Urgent UNS) approved program to develop and field a deployable, self-contained Combat Operations Center (COC) for the MEF Command Element. It integrates shelters, power generation, environmental controls, and information systems into a single tactical, operational and strategically deployable system. The MEF COC provides the commander with a continuous, integrated view of the battlefield necessary to develop and implement command decisions. It is based primarily on Commercial and Government off the shelf products.

				Date:
Exhibit P-40, Budget Ite	em Justifica	ition Sheet		May 2009
Appropriation / Budget Activity/Serial No:			P-1 Item Nomer	nclature:
Procurement, Marine Corps (1109) / Communication	ns and Elect	tronics Equipment (4)		COMMMAND POST SYSTEMS
Program Elements:	Code:	Other Related Program El	ements:	
0206313M Marine Corps Communication Equipment	Α			

Blue Force Situational Awareness (BFSA) -The Marine Corps' Situational Awareness family of systems comprised of the Mounted and Dismounted variants of a terrestrial Enhance Position Location Reporting System/Single Channel Ground Airborne Radio Systems (EPLRS/SINCGARS) and the mounted celestial (SATCOM) system.

- -BFSA/Data Automated Communications Terminal (DACT) The Data Automated Communications Terminal (DACT) is current Marine Corps' Blue Force Tracking Program of Record. It provides tactical ground tracks below the Marine battalion, and is a primary provider of Position Location Information (PLI) into the Combat Operations Center (COC) and to Joint forces viewing the Common Operational Picture (COP). DACT is one tool in the Joint Combat ID toolbox that the Marine Commander uses to reduce the potential for fratricide. The Mounted Refresh Computer (MRC) (IOC for MRC is planned for May 2010) is the BFT Family of Systems (FoS) based replacement (IAW with JRCOM directed convergence) for the Mounted DACT and consists of militarized central processing unit with Command and Control Compact Edition (C2CE) software (SW) integrated with various tactical vehicle platforms and communications systems through the use of a vehicle Installation Kit (I-Kit). MRC will be mounted in vehicles within the battalion.
- -BFSA/The Dismounted DACT (D-DACT) is a smaller, lighter handheld device having greater battery life, consisting of the Rugged Personal Digital Assistant (R-PDA) running C2CE SW. The Dismounted DACT is intended for the dismounted user at the platoon level and below. Capabilities will include enhanced communication paths; near future combined BFSA COP with BFT FoS products via new BFT SW (Joint Capabilities Release (JCR) SW),improved Graphic User Interface (GUI) software, and Selective Availability Anti-Spoofing Module (SAASM) GPS integration.
- -BFSA/Blue Force Tracker (BFT) The BFT System is a commercial satellite-based Tracking and Communication System. The USMC was directed to converge to the BFT FoS by JROCM and MROC direction based on recent OIF/OEF lessons learned. The BFT FoS is composed of the BFT, MRC, TOC-kit and BP products. BFT provides the near real time capability to identify vehicle/squad/rotary aircraft position, track progress, and communicate with other operators of these tactical "platforms" in OIF, OEF, other OCONUS operations and CONUS training for wartime deployment.

Mounted Digital Automated Communications Terminal (MDACT) The Mounted DACT consists of the Rugged Handheld Computer (RHC) with Command and Control Personal Computer (C2PC) software and will be integrated with various tactical vehicle platforms through the use of a Vehicle Modification (VM) Kit. MDACT provides military communications computer built to operate under harsh environmental conditions on an advanced digital battlefield.

Item No. 29 Page 3 of 8

Exhibit P-40a, Budget I	tem Ju	stificatio	on for Aggregated I	tems		Date:	N	1ay 2009	
Appropriation / Budget Activity				P-1 Item No	menclature	<u> </u>	<u> </u>	,	
Procurement, Marine Corps (1109) / Commu (4)	ınicatior	ns and E	ectronics Equipment	:		C	OMMMAND POST SY	STEMS	
Procurement Items	Code	UOM	Prior Years	FY 2008	FY 2009	FY 2010	FY 2010 OCO		
Marine Corps Information Operation Center (MCIOC)	А	D	0.000	0.000	0.548	0.336	0.000		
CAPSET I COC Refresh	Α	D Q	0.000	0.000	2.500 1	0.000	0.000		
Tactical Combat Operations Systems (TCO)	A	D Q	5.600	1.320	0.843	0.772	0.000		
Totals			5.600	1.320	3.891	1.108	0.000		

Exhibit P-5 Cost Analysis	Procu	priation/ Budge rement, Marine ment (4)			ications and	Electronics		em Nomenc	lature: SYSTEMS	Weapon Sy	stem Type:	Date:	Лау 2009	9
Weapon System		Prior Yrs		FY08			FY09			FY10		F	Y10 OC	0
Cost Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
VARIOUS COMMAND POST SYSTEMS		90581												
GCCS 4.1 System Architecture Refresh - Active 4.1 System Architecture Refresh - Reserve		13149	3514	378	9296	2050 500		3000 3000		421	10121			
4.1 ARCH Set-up, Training & Site Spt Various Equipment		12591	940 296	VAR	VAR	1732 390		VAR	1404 1691	VAR	VAR			
AFATDS Program Management Hardware Refresh (MTS) Hardware Refresh (BUCS) Hardware Refresh (AFATDS) OIF Reset/II MEB Equip Density List (EDL)		2532 3095 10376	1252 5401	29	186241	859			1116 12761	423	30168	2460	36	68350
TLDHS TLDHS Systems STRIKELINK Equipment Support II MEB EDL		16554 1714	8829 511	321	27505	523 516		27505	7701 389	280	27505	2107	43	49000
TOTAL		150592	20743			6570			29323			4567		

	Procu	opriation/ Bud				I Electronics			menclature:	Weapon Sy	ystem Type:	Date:	May 2009	
	Equip	ment (4)		FY08			FY09			FY10			FY10 OCO	
Weapon System Cost Elements	ID CD		TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
		\$	4000			4000			Ψοσο			Ψ000		
<u>*BFSA</u>														
Program Management		5600	2300			1748			1800					
NET/Training/Logistics		25402	6679			4061			6000					
Peripherals		2818	935											
D-DACT Fielding Support		275	1200											
D-DACT Contract Support			2456											
D-DACT II MEB Equip Density List												120	12	10000
System Installation (FSR)						5100								
ICE2 Contract		774	1200											
BFT HW-(JV-5) Refresh		14332	10340			1621								
BFT HW OEF/OIF						9870	591	16700						
CF 29 Variant		2100												
CECOM Support		2400												
BFT II MEB Equip Density List												18354	1158	15850
HW Components (DF-5)			170											
FBCB2-BFT Mounted Kits		10000	6075	VAR	VAR	4917		VAR	11589	VAR	VAR			
BFT TOC-Kits			1841	VAR	VAR									
AAV/LAV I-Kits			15119											
8.4 Display Units			4859											
M-1 I-Kits														
BFT-II SATCOM antennas						48000	9600	5000						
KVG-72 (Type-1, Encryptors)						55200	9600	5750						
-BFSA/DACT		38686				50200	- 300	3.30						
MDACT/MDACT		30000												
Refresh Computer		33605				356	18	19778						
Program Management Support		4728				230								
-BFSA/DDACT		20												
Hardware Refresh														
-BFSA/BFT		6281												
* DACT Hardware purchased		0201												
under the MCHS program.														
TOTAL		147001	53174			130873			19389			18474		

E	Date:	May 2009	9							
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communication	s and Electronics Equipment (4)	Weapon Sys	stem Type:		P-1 Line Item No		ire: MMMAND PC	ST SYSTE	•	
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method & Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issue Date
GCCS FY08 4.1 SYSTEM ARCHITECTURE REFRESH FY09 4.1 SYSTEM ARCHITECTURE REFRESH - Active FY09 4.1 SYSTEM ARCHITECTURE REFRESH - Reserve FY10 4.1 SYSTEM ARCHITECTURE	SSC Charleston, SC SSC Charleston, SC SSC Charleston, SC SSC Charleston, SC	FFP FFP FFP	MCSC, Quantico, VA MCSC, Quantico, VA MCSC, Quantico, VA MCSC, Quantico, VA	Jan-08 Jan-09 Jan-09 Jan-10	Aug-08 Aug-09 Aug-09 Jul-10	378 682 168 421	3000		N/A N/A N/A	N/A N/A N/A
REFRESH AFATDS FY08 REFRESH/MTS FY10 REFRESH/AFATDS FY10 AFATDS OIF/II MEB EDL TLDHS FY08 STRIKELINK EQUIPMENT FY09 STRINKLINK EQUIPMENT FY10 STRIKELINK EQUIPMENT	Gichner, Yorktown, PA General Dynamics, Taunton, MA General Dynamics, Taunton, MA Stauder, St. Louis, MO Stauder, St. Louis, MO Stauder, St. Louis, MO	FFP FFP	ARSC, Natick, MA Ft Monmouth, NJ Ft Monmouth, NJ MCSC, Quantico, VA MCSC, Quantico, VA MCSC, Quantico, VA MCSC, Quantico, VA	Jun-08 Dec-09 Dec-09 Feb-08 Dec-08 Dec-09	Feb-09 Sep-10 Sep-10 Jan-09 Sep-09 Sep-10		186241 30168 68350 27505 27505	NA NA	N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A
FY10 TLDHS II MEB EDL BFSA FY09 Blue Force Tracker (BFT) FY10 Blue Force Tracker (BFT) FY10 DDACT II MEB EDL	Stauder, St. Louis, MO DRS Tactical Data Sys, Melborne, FL DRS Tactical Data Sys, Melborne, FL DRS Tactical Data Sys, Melborne, FL DRS Tactical Data Sys, Melborne, FL	FFP FFP FFP	MCSC, Quantico, VA Ft Monmouth, NJ Ft Monmouth, NJ Ft Monmouth, NJ	Jul-09 Dec-09 Dec-09	Jan-10 Jun-10 Jun-10	591 1158	49000 16700 15850	NA N/A	N/A N/A NA NA	N/A N/A NA NA

	EXHI	BIT F	P-21,	PROD	UCTIO	N SCH	EDU	JLE												Date):				Ma	y 200	09				
Appropriation Code/CC/BA/BSA/Item Control N	lo.						Wea	pon (Syste	em				P-1	Item	Nome	encla	ture:								,					
Procurement, Marine Corps (1109) / C	ommunications a	and Ele	ectroni	cs Equip	ment (4)				•											001	45.45.4		DO0	T 0\	OTE:						
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	Manufacturer's	s NAM	1E / LC	CATION	I		M	SR	EC	CON	M	AΧ				ALT		Oct		Initia			eord						Unit		
ITEM	0 10						_			50	0.	- 0		Oct 1	l		1		M	fg PL	.!	IV	lfg Pl	LI			TAL			sure	
AFATDS II MEB EDL	General Dyn							0		50	2						3			8			9				20		E		
TLDHS STRIKELINK EQUIPMENT	Stauder Tec			/=:				0		50	10			_			4			11			9				24		E		
BLUE FORCE TRACKER/DDACT EDL	DRS Tactica	al Data	a Syst	ems/FL			5	0	1	50	2	00		8			7			6			6			- 2	27		E		
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ITEM		T C Y L L				Т	٧	С	N	В	R	R	Υ	N	L	G	Р	Т	V	С	N	В	R	R	Υ	N	L	G	Р		
TLDHS STRIKELINK EQUIPMENT		8 MC 321 321								Α											50	50	50	50	50	50	21			0	
TLDHS STRIKELINK EQUIPMENT		9	MC	19		19															Α									19	
BLUE FORCE TRACKER		9	MC	591		591																						Α	<u> </u>	<u> </u>	591
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		F	S V	Q T	D E	B A	O C T	N O	D E	J A	F E	M A	A P	Μ	J	J	A	S E P	O C T	N O	D E	J A	F E	M A	A P	M A	J	J	A U	S E	С
ITEM		Υ	Ċ	Ý	Ĺ	Ĺ	T	v	c	N	В	R	R	A Y	N	L	U G	Р	T	٧	C	N	В	R	R	Y	N	Ĺ	G	P	Е
TLDHS STRIKELINK EQUIPMENT		10	МС	280		280			Α									40	30	30	30	30	30	30	30	30		一	\vdash	\vdash	0
TLDHS OIF/II MEB EDL		10	MC	43		43			Α									43	50	50	50	50	50	- 50	50	50		\vdash	\vdash	\vdash	0
BLUE FORCE TRACKER		9	MC	591		591			<i>,</i> ,	250	250	91																1	T	t	0
BLUE FORCE TRACKER		10	MC	1158		1158			Α						##	##	##	##	##	##	##	##	##	##	##	58			\vdash	Г	0
DDACT II MEB EDL		10	MC	12		12			Α						12														T		0
AFATDS II MEB EDL		10	MC	36		36			Α									36													0
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REMARKS:			-				-																		-			-			

	Exhibit P-40, Budge	et Item Justification Sh	neet		Date:			May 2009		
Appropriation / Budget /	Activity/Serial No:		P-1 Item Nome	nclature:	=					
Procurement, Marine C	orps (1109) / Communications an	d Electronic Equipment (4)					RADIO SYSTE	MS		
Program Elements:		Code:	Other Related F	Program Elemen	its:					
0206313M Marine C	orps Communication Equipment	Α								
	Prior Years	FY 2008	FY 2009	FY 2010	FY 2010 OCO	FY 2010 TOTAL				
Proc Qty										
Gross Cost			111.3	62.0	32.5	94.5				
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc (P-1)	2323.2	451.5	111.3	62.0	32.5	94.5				
Initial Spares	26.8	0.0	3.6	4.4						
Total Proc Cost	2350.0	451.5	114.9	66.4	32.5	94.5				
Flyaway U/C										
Wpn Sys Proc U/C										

This is a roll-up line which contains the following programs:

Legacy Communications/Electronics Modifications and Sustainmentencompass post production Sustainment of fielded tactical communication and networking systems and Service Life Extension Programs (SLEP) of aging communications equipment reaching the end of their life cycle. The post production sustainment provides necessary engineering and logistic support to maintain the existing operational capability above threshold operational readiness. The support provides equipment specialists, configuration management, supply/control support coordination, depot maintenance control, and warranty administration.

Networks: The following systems require SLEP/supportability upgrades: The Unit Level Circuit Switch (ULCS), which consists of the Automatic Telephone Central OfficerC-42), Telephone Switch Board (SB-3865) and Tactical Switch Board (SB-3614) require sustainment and modifications to continue the operating forces networking/switching capability until Transition Switch Module (TSM) is fielded. The AN/TSQ-227 Digital Technical Control (DTC) upgrades are driven by Department of Defense (DoD) mandated interoperability and security requirements, which includes technology insertion and evolutionary equipment improvements.

AN/TRC-170: The AN/TRC-170 is a transportable, self-enclosed troposcatter terminal (multi-channel) capable of transmitting and receiving digital data over varying distances (up to 100 miles). This terminal is comprised of modular electronic equipment in various configurations with Government Furnished Equipment (GFE) multi-plexers and cryptographic items all housed in a modified S-250/G shelter.

Global Broadcast Service (GBS):provides a worldwide, high capacity, one-way transmission of video, imagery, and other information as required to support joint military forces in garrison, in transit, and in theater. The GBS system will broadcast via communication payloads on a constellation of DoD satellites augmented by leased commercial satellite services. Information (data and video) is collected, organized, and fed to the satellite uplink by fixed or transportable injection points. Services provided by GBS include File Transfer Protocol (FTP), Non-Secure Internet Protocol Router Network (NIPR)/Secret Internet Protocol Router Network (SIPRNET) access, audio and video such as Cable News Network (CNN), and imagery dissemination. GBS consists of space, transmit, and receive segments. The Marine Corps is only procuring the GBS Receive Suites (RS) which is comprised of the Receive Broadcast Manager (RBM) and receive antennas. The RBM consists of a microcomputer, monitor, Integrated Receive Decoder (IRD), and KG-250 cryptographic equipment. The RS receives information from the transmit segment, decodes it and then distributes the information to users. The Marine Corps is purchasing both the fixed station RS and the transportable RS.

Defense Advanced GPS Receiver (DAGR): a handheld, dual-frequency (L1/L2), Selective Availability Anti-Spoofing Module (SAASM) based, Precise Positioning Service (PPS) receiver that is a functional, backwards compatible replacement for the Precision Lightweight GPS receiver (PLGR). DAGR will provide real time position, velocity, navigation and timing (PVNT) data in a stand-alone receiver. The DAGR will be used throughout all theaters of operation. DAGR is interchangeable with existing PLGR physical installations (mounts, cables, connectors and power adapters) and backwards compatible with PLGR.

Tactical Communications Modernization (TCM) procures state of the art radio systems (IISR, PRC-117, PRC-150 and PRC-148) as interim solutions to Joint Tactical Radio System (JTRS) products which are presently in development but not available for immediate procurement in response to wartime requirements. The current TCM program schedule and budget profile for TCM will: (1) replace legacy radio systems at/past the end of their service life, (2) modernize tactical radio capabilities consistent with JTRS, and (3) "reset the force" to effectively meet any p Operation Iraqi Freedom (OIF) threat.

Joint Tactical Radio System (JTRS): provides a family of software-programmable and hardware configurable radio systems that will deliver unprecedented interoperability and operational flexibility to support the varied mission requirements of the warfighter. Just like the warfighter adapts to the battlefield environment, a JTRS system will be adaptable to perform in whichever frequency band and/or mode of operation that is required to complete the mission. The Marine Corps' initial procurement investment in the JTRS product line will be the procurement of a 2-channel manpack radio system that provides Mobile User Objective System (MUOS) capability. MUOS is the next-generation of Tactical Satellite (TACSAT) communications technology based on a new constellation of satellites. Timely procurement of the MUOS capability is vital for the Marine Corps to fill what would otherwise be a mission-critical gap in tactical radio communication beyond-line-of-sight command and control voice/data nets.

Exhibit P-40, Budget Item Justification She		Date: May 2009
Appropriation / Budget Activity/Serial No:	P-1 Item Nomenclature:	
Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4)		RADIO SYSTEMS

Enterprise Land Mobile Radio (E-LMR): provides a modern, digital, trunked radio system at all bases, posts and stations across the Marine Corps. It will provide coverage both mainside and in training areas to provide positive command and control over training units. It will also provide a safety of life and safety of flight system that enables emergency personnel to respond to problem during normal, crisis, and recovery operations.

There are three capability objectives for the initial procurement and installation of ELMR systems:

- (1) First Responder Capability/Interoperability. In the wake of 9/11, it was recognized that effective emergency communications is a key element in providing homeland security while reducing the loss of life in any crisis or incident.
- (2) Compliance with the Federal Communications Commission (FCC) Narrowbanding mandate for Land Mobile Radio (LMR) frequency spectrum management. Failure to meet this 1 Jan 08 deadline has already forced training "shut downs" at critical pre-deployment training bases and events.
- (3) Provide operational capabilities to reset, expand, and modernize the deficient LMR infrastructure which is inadequate to fully support the warfighters' security, safety, and overall combat effectiveness.

The ELMR capability will be achieved throughtwo procurement efforts.

- (1) Subscriber Units: Procurement of the radio systems for personnel and vehicles.
- (2) Infrastructure: Procurement of ELMR tower and networking infrastructure that allows for radio trunking, remote operations, monitoring, and Continuity Of Operations (COOP).

Procurement and installation of ELMR subscriber units and infrastructure will be executed incrementally -- addressing one or several bases each year in order to deliver an immediate 100% "turnkey" solution for the base(s) funded for that year.

Command and Control On-the-move Network, Digital Over-the-horizon Relay (CONDOR) procures CONDOR systems will allow tactical forces to extend units Beyond Line-of-Sight (BLOS) while maintaining friendly and enemy locations and posture by maintaining data network connectivity over great distances while On-the-move (OTM). There are three capability objectives for the initial procurement of CONDOR systems:

- 1) Enable BLOS, OTM, and connectivity of Network Enabled Radio communities
- 2) Operate on a variety of power sources, including vehicular and terrestrial means
- 3) Maintain connectivity for United States Marine Corps (USMC) fires and Command and Control (C2) applications

Procurement of CONDOR system will enable tactical forces to execute missions regardless of the physical limitations of line-of-sight radios. The CONDOR will also facilitate interoperability with Joint forces employing Network Enabled Radios. The inability to share common tactical and operational picture data with the Army was a lesson learned from Operation Iraqi Freedom (OIF). funding will result in failure to provide the capability for operating forces to maintain data network connectivity BLOS while OTM, and maintain near-real-time situational awareness while OTM and during command post displacement.

Very Small Aperture Terminal (VSAT):Procurement of the Ka upgrade for VSAT terminals is a one-time investment across the entire inventory of VSAT terminals. This upgrade provides access to more economical government-owned Ka bandwidth. Migration to Ka bandwidth from the current commercially-owned Ku bandwidth would eliminate commercial satellite access fees. Furthermore, use of Ka bandwidth mitigates any risk associated with commercial management of Ku bandwidth during a crisis period.

Exhibit P-40, Budget Item Justification She	eet	Date: May 2009
Appropriation / Budget Activity/Serial No:	P-1 Item Nomenclature:	
Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4)		RADIO SYSTEMS
wideband communications capabilities. Systems have similar capab	ility sets. LMST can be	MST and Phoenix are quad-band Super High Frequency (SHF) satellite terminals that provide employed in a transit case configuration or mounted on High Mobility Multi-Purpose Wheeled Veh vide the primary communications link between deployed forces and Satellite Tactical Entry Points
Extremely High Frequency (EHF) satellite communications. The SM/secure, survivable, long-haul, low/medium data rate communications	ART-T system is transpor I link not subject to terrain	am, Reliable, Tactical-Terminal (SMART-T), provides tactical users with protected data & voice ted on High Mobility Multipurpose Wheeled Vehicles (HMMWVs) providing MAGTF commanders a masking and horizon limitations. The SMART-T is also capable of operation if removed from the (XDR) waveform are planned in the near future. The upgraded SMART-T will be nomenclatured as
the Unites States Marine Corps (USMC). Radio Reconnaissance Te equipped to support the full spectrum of Marine Expeditionary Unit S	eams, Marine Corps Force pecial Operations Capab	at only for special operations capable, foot mobile Signals intelligence (SIGINT) collection teams in the sest of

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Exhibit P-40a, Budget Item	Justif	icatio	on for Aggregated	Items		Date:		May 2009		
Appropriation / Budget Activity				P-1 Item	Nomencla	ature:		.,		
Procurement Marine Corps (1109) Communic (4)	ation a	and El	ectronics Equipment				RADI	O SYSTEMS		
Procurement Items	Code	UOM	Prior Years	FY 2008	FY 2009	FY 2010	FY 2010 OCO	FY 2010 TOTAL		
Legacy Communications/Electronics	Α	D	3.575	4.376	4.036	4.006		4.006		
		Q		34	25					
Global Broadcast Service	Α	D	12.420	2.425	1.087					
		Q		20						
DAGR	Α	D	7.622	0.946	0.305		1.632	1.632		
Tactical Elevated Antenna Mast System (TEAMS)	Α	D	9.600	2.625	0.435					
		Q								
Radio Reconnaissance Equipment Program (RREP)	Α	D	8.418	3.200	0.000					
		Q								
Radio Systems		D	0.000	3.796	0.000					
Radio Systems (MRC-142)	Α	D	0.000	0.000	0.213					
Radio Systems (IISR)	Α	D	0.000	0.000	0.170					
Joint Tactical Radio System (JTRS)	Α	D	0.000	0.000	0.000	4.350		4.350		
		Q				112				
TOTAL			33.217	17.368	6.246	8.356	1.632	9.988		

Exhibit P-5 Cost Analysis		Procureme			erial No: Communicatio	n and		em Nomenc adio System		Weapon S	System Type:	Date:	May 2009	
		Prior Yrs	_qa.po	FY 08			FY 09			FY 10)		FY 10 OCO	
Weapon System Cost Elements	ID CD	Total Cost \$000	Total Cost \$000	Qty Each	Unit Cost \$	Total Cost \$000	Qty Each	Unit Cost \$	Total Cost \$000	Qty Each	Unit Cost \$	Total Cost \$000	Qty Each	Total Cost \$000
Tactical Communications Modernization														
Vehicle Mounted Radios														
AN/PRC-152(AN/VRC 110)	Α		13861	617	22466							8000	VAR	TBD
UHF/VHF AN/PRC-117(AN/VRC 103)	Α	15794	46473	1268	36644	4903	161	30454				4600	VAR	TBD
VHF Manpack (AN/PRC-117F)	Α	219240												
AN/PRC -119														
Radio Set Manpack (AN/PRC-119F)														
MBR AN/PRC-117F	Α		16418	810	20270							7500	VAR	TBD
THHR (PRC-152/PRC-148)**			190499	16144	11800							3000	VAR	TBD
MBR Vehicle Installation System	Α		22000	2000	11000									
MRC-142 Replacement (HMMWVs)			13050	145	90000							3839	VAR	TBD
EPLRS	Α											1700	VAR	TBD
Antenna Modernization			18999	6333	3000									
Remote Modernization	Α		17080	1708	10000									
Tactical elevated Antenna Mast Systems (TEAMS)												1640	VAR	TBD
Warfighter information Network-Expeditionary (WIN-X) LRIP Systems			15000	VAR	TBD									
Contract Management, Material Fielding Teams, Program Office & Engineering Support	Α	5389	30282											
	Α													
** Unit Cost includes vehicle integration														
Subtotal		240423	383662			4903						30279		
Reserves														

Exhibit P-5 Cost Analysis		Procureme	on/ Budget Ant Marine Co Equipment	orps (1109) ((4)	l No Communicat	ion and	R	m Nomencla adio Systems					May 2009	
Weapon System	ID	Prior Yrs		FY 08			FY 09			FY 10			FY 10 OCO	
Cost Elements	ID CD	Total Cost \$000	Total Cost \$000	Qty Each	Unit Cost \$	Total Cost \$000	Qty Each	Unit Cost \$	Total Cost \$000	Qty Each	Unit Cost \$	Total Cost \$000	Qty Each	Total Cost \$000
ManPack Radios														
THHR	Α		2310	836	2763									
Integrated InterSquad Radio (IISR)	Α					8750	3500	2500						
AN/PRC-150	Α													
HF Transit Case (TRC-209)	Α													
HF Vehicle (VRC-104)	Α													
MRC-142 Replacement	A													
THHR COMSEC Upgrade	A								10697	VAR	TBD			
											TBD			
MBR COMSEC Upgrade	A								9149		TBD			
HFR COMSEC Upgrade	A	5000	-0.44						5422		IBD			
Contract Management & Engineer Support Spares	A A	5389	5041 10818			5090			11798					
Su	ıbtotal	5389	18169			13840			37066					
Res	serves													

Exhibit P-5 Cost Analysis		Appropriation Procurement Electronics E	t Marine Co	orps (1109)	al No Communicati	on and	P-1 Line Ite	m Nomencladio System		Weapon \$	System Type:	Date:	May 20	009
Weapon System	ın	Prior Yrs		FY 08			FY 09			FY 10			FY 10 C	СО
Cost Elements	ID CD	Total Cost \$000	Total Cost \$000	Qty Each	Unit Cost \$	Total Cost \$000	Qty Each	Unit Cost \$	Total Cost \$000	Qty Each	Unit Cost \$	Total Cost \$000	Qty Each	Total Cost \$000
VSAT Sustainment Very Small Aperture Terminal Comesec Equipment Logistics/Fielding Support Wireless Point to Point (WPPL) VSAT Ka Terminal Upgrade Program Support Logistics, Training FSR	A A A	48000 600 13000				15450 6050	60	257500	20 9487	136	69758			
Enterprise Land Mobile Radio (ELMR) Project Office Support MCAS Yuma, infrastructure upgrade MCAS Beaufort, infrastructure upgrade MCI East, Regional RF subsystem MCI West, Regional RF subsystem Contract Management & Engineer Suppor MCI East Radio Infrastructure	A A A A A A A	46000				1200 6270 6270 3100 3100 6200	VAR VAR VAR VAR	TBD TBD TBD TBD	4898	VAR	VAR			
C2 On-the-Move Network Over-the Horizon Relay (CONDOR) Project Office Support WIN X LRIP Systems	A A A		400			4832 3516	VAR	TBD						
SMART-T UPGRADES Upgrades SMART-T Terminals (AN/TSC-154) Program Support AEHF Upgrade Kits Tactical MPSS Ancillary Equipment	A A A A	958 498	1500			5895 370	9	655000	10 881	31	28406	472		
LMST Phoenix TSST Upgrades Terminals, GFE, BIIDS and support Contract Management Engineer Support Contractor Support M1152 IAP ECV's LMST ETSSP Upgrade LMST Ka-Band Upgrade LMST PIP LMST Mobilization Racks Contract Management Engineer Suppor TRC-85 Upgrades		7980 7289 19654 870 3452 4044 3040 27688 12200 1221 600 4556	2304 788 1824	12	2304000 152000	394 2814	39	8974	390 646 200	VAR	VAR	114		
TSC-93D Upgrades IP Moden Upgrade LMST ECP		1460	7400			20526	250	82105						
Subtotal Reserves		203110				86337			16532			586		

Exhibit P-5 Cost Analysis	Procureme	ion/ Budge ent Marine s Equipmer	t Activity/Se Corps (1109 at (4)	erial No 9) Commun	cation and		em Nomencl adio System		Weapon S	System Type	Date:	May 2009	ı
Weapon System	Prior Yrs		FY 08			FY 09			FY 10			FY 10 OCO	
Cost Elements	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	TotalCost \$000
Satelitte Communications													
TRC-170 Antenna	٨	15656	103	152000									
Contract Support	Λ	565											
DTC Refresh	٨	1900	1	1900									
Subtotal BLI Grand Total Reserves	448922	18121 434168			105080			53598			30865		

ı	Exhibit P-5a, Budget Procuren	nent Hist	ory and Planning					Date:	May 200	^
Appropriation / Budget Activity/Serial No:		Weapon	System Type:		P-1 Line I	tem Nom	enclature:		May 200	9
Procurement Marine Corps (1109) Communicati	on and Electronics Equipment (4)	Woapon	Cyclom Typo.			1011111011	Radio Syst	ems		
WBS Cost Elements:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Contract		Ι.,	Date of	OT) (Date	RFI
Fiscal Years	Contractor and Location	Method & Type	Location of PCO	Award Date	First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Revsn Avail	Issu Dat
		7.								
Factical Communications Modernization										
Vehicle Mounted Radios										
FY08 AN/PRC-152(AN/VRC 110)	Harris Corp, Rochester, NY	FFP	MarCorSysCom	Mar-08	Jun-08	617	22466	Υ	NA	N/
FY10 AN/PRC-152(AN/VRC 110)	Harris Corp, Rochester, NY	FFP	MarCorSysCom	TBD	TBD	VAR	TBD	Υ	NA	N/
FY 08 AN/PRC-117(AN/VRC-103)	Harris Corp, Rochester, NY	FFP	MarCorSysCom	May-08	Aug-08	1268	36644	Υ	NA	N/
FY 09 AN/PRC-117(AN/VRC-103)	Harris Corp, Rochester, NY	FFP	MarCorSysCom	Nov-08	Feb-09	161	30454	Υ	NA	N/
FY 10 AN/PRC-117(AN/VRC-103)	Harris Corp, Rochester, NY	FFP	MarCorSysCom	TBD	TBD	VAR	TBD	Υ	NA	N/
FY 08 AN/PRC-117F	Harris Corp, Rochester, NY	FFP	MarCorSysCom	Nov-07	Feb-08	810	20270	Υ	NA	N/
FY 10 AN/PRC-117F	Harris Corp, Rochester, NY	FFP	MarCorSysCom	TBD	TBD	VAR	TBD	Υ	NA	N/
FY08 THHR with SVA (via JTRS CISCHR) PRC-152 w/ /RC-110 or PRC-148 w/ VRC-111	Harris Corp, Rochester, NY	FFP	SPAWAR, CA	Jun-09	Aug-09	16144	11800	Υ	NA	N
FY10 THHR with SVA (via JTRS CISCHR) PRC-152 w/ /RC-110 or PRC-148 w/ VRC-111	Harris Corp, Rochester, NY	FFP	SPAWAR, CA	TBD	TBD	VAR	TBD	Y	NA	N/
FY08 MBR Vehicle Installation System	Harris Corp, Rochester, NY	FFP	SPAWAR, CA	Jun-09	Sep-09	2000	11000	Υ	NA	N/
FY08 MRC-142 Replacement (HMMWVs)	AM Gerneral, Livoina, MI	FFP	TACOM, Warren, MI	Jun-09	Jan-10	145	90000	Υ	NA	N/
FY10 MRC-142 Replacement (HMMWVs)	AM Gerneral, Livoina, MI	FFP	TACOM, Warren, MI	TBD	TBD	VAR	TBD	Υ	NA	N/
EPLRS	TBD	FFP	CECOM	TBD	TBD	VAR	TBD	Υ	NA	N/
FY08 Antenna Modernization	Harris Corp, Rochester, NY	FFP	SPAWAR, CA	Jun-09	Sep-09	6333	3000	Υ	NA	N/
FY08 Remote Modernization	Harris Corp, Rochester, NY	FFP	SPAWAR, CA	Jun-09	Sep-09	1708	10000	Y	NA	N/
FY08 Warfighter information Network-Expeditionary (WIN- X) LRIP Systems	TBD	FFP	CECOM	TBD	TBD	VAR	TBD	Y	NA	NA
Manpack Radios										
FY08 THHR	Thales, Clarksburg, MD	FFP	MarCorSysCom	Dec-07	Mar-08	836	2763	Υ	NA	N/
FY 09 Integrated InterSquad Radios (IISR)	Motorolla	TBD	MarCorSysCom	Dec-08	Feb-09	3500	2500	Υ	NA	N.
FY10 THHR COMSEC Upgrade	TBD	FFP	TBD	TBD	TBD	VAR	TBD	Υ	NA	N.
FY10 MBR COMSEC Upgrade	TBD	FFP	TBD	TBD	TBD	VAR	TBD	Υ	NA	N.
Y10 HFR COMSEC Upgrade	TBD	FFP	TBD	TBD	TBD	VAR	TBD	Y	NA	N.
Remarks	l	<u> </u>						I		

E	xhibit P-5a, Budget Procureme	nt Histor	ry and Planning					Date:	May 2009	9
Appropriation / Budget Activity/Serial No: Procurement Marine Corps (1109) Communicatio	n and Electronics Equipment (4)	Weapon S	ystem Type:		P-1 Line It	em Nomen	nclature: Radio Sys	tems	,	
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method & Type		Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issue Date
Very Small Aperture Terminal	TELESCOMMUNICATIONS 0/0 (TOO)	550	050011		D 00		057500	.,		
FY09 Wireless Point to Point (WPPL) FY10 VSAT Ka-band Upgrade	TELECOMMUNICATIONS SYS (TCS) TBD	FFP FFP	CECOM MarCorSysCom	Oct-09 Oct-09	Dec-09 Dec-09	60 136			NA NA	NA NA
Enterprise Land Mobile Radio FY09 MCAS Yuma, infrastructure upgrade FY10 MCAS Yuma, infrastructure upgrade FY09 MCAS Beaufort, infrastructure upgrade FY09 MCI East, Regional RF subsystem FY09 MCI West, Regional RF subsystem FY09 C2 On-the-Move Network Over-the Horizon Relay (CONDOR)	TBD TBD TBD TBD TBD TBD	FFP FFP FFP FFP	TBD TBD TBD TBD TBD	TBD TBD TBD TBD TBD	TBD TBD TBD TBD TBD	VAR VAR VAR VAR	TBD TBD TBD TBD TBD	Y Y Y	NA NA NA NA	NA NA NA NA
FY09 WIN-X LRIP	TBD	FFP	CECOM	TBD	TBD	VAR	TBD	Y	NA	NA
Remarks										

Remarks

bit P-5a, Budget Procure	ement His	story and Planning					Date:	May 200	9
	Weapon Sy	stem Type:		P-1 Line Iter	m Nomencl	ature:		-	
nd Electronics Equipment (4)						Radio Syste	ems		
Contractor and Location	Contract Method &	Location of PCO	Award	Date of First	QTY Each	Unit Cost \$	Specs	Date Revsn	RFP Issue
	Type		Date	Delivery	Lacii		Avaii:	Avail	Date
vtheon Corp. Largo FL	FFP	CECOM	Mar-09	Jun-09	9	655000	Υ	NA	NA
,									
ytheon Corp, Largo FL	FFP	CECOM	Mar-10	Jun-10	31	28406	Υ	NA	NA
Comm, Salt Lake City Ut	FFP	CECOM	Mar-09	Jun-09	1	2304000	Υ	NA	NA
rris Corp, Melbourne FL	FFP	CECOM	Jan-08	Aug-08	12	152000	Υ	NA	NA
rris Corp, Melbourne FL	TM	MarCorSysCom	Jun-09	Sep-09	39	8974	Υ	NA	NA
rris Corp, Melbourne FL	TM	MarCorSysCom	Jun-10	Sep-10	VAR	VAR	Υ	NA	NA
D	TBD	NASA SEWP	TBD	TBD	103	152000	Y	NA	NA
AWAR, Charleston, SC	TM	SPAWAR, Charleston	Jun-09	Jan-10	1	1900	Υ	NA	NA
y y r r	Contractor and Location theon Corp, Largo FL theon Corp, Largo FL Comm, Salt Lake City Ut ris Corp, Melbourne FL ris Corp, Melbourne FL ris Corp, Melbourne FL	Contractor and Location Contract Method & Type Theon Corp, Largo FL Theon Corp, Largo FL Theon Corp, Largo FL Comm, Salt Lake City Ut ris Corp, Melbourne FL Tis Corp, Melbourne FL Tis Corp, Melbourne FL Tis Corp, Melbourne FL Tis Corp, Melbourne FL Tis Corp, Melbourne FL Tis Corp, Melbourne FL Tis Corp, Melbourne FL Tis Corp, Melbourne FL Tis Corp, Melbourne FL Tis Corp, Melbourne FL Tis Corp, Melbourne FL	Contract Method & Location of PCO Type Theon Corp, Largo FL Theon Corp, Largo FL Theon Corp, Largo FL Theon Corp, Largo FL Theon Corp, Largo FL Theon Corp, Largo FL Theon Corp, Largo FL Theon Corp, Largo FL Theon Corp, Largo FL Theon Cecom Theon Cecom Theorem Cecom T	Contractor and Location Contract Method & Type Theon Corp, Largo FL Theon Corp, Largo FL Theon Corp, Largo FL Theon Corp, Largo FL Theon Corp, Largo FL Theon Corp, Largo FL Theon Corp, Largo FL Theon Corp, Largo FL Theon Corp, Largo FL Theon Corp, Largo FL Theon Corp, Largo FL Theon Corp, Largo FL Theon Corp, Largo FL Theon Cecom Theon Ce	Weapon System Type: Contract Method & Type Contract Method & Type CECOM Comm, Comm, Salt Lake City Ut ris Corp, Melbourne FL ris Corp, Melbourne FL ris Corp, Melbourne FL TBD NASA SEWP P-1 Line Iter P-1 Line Iter P-1 Line Iter P-1 Line Iter P-1 Line Iter P-1 Line Iter P-1 Line Iter Award Date of First Delivery Award Dat	Weapon System Type: Contract Method & Type Contract Method & Type CECOM Theon Corp, Largo FL Theon Corp, Largo FL Comm, Salt Lake City Ut FFP CECOM Comm, Salt Lake City Ut FFP CECOM CECOM CECOM Mar-09 Jun-09 1 CECOM Mar-09 Jun-10 31 Comm, Salt Lake City Ut FFP CECOM Mar-09 Jun-09 TEP CECOM Mar-09 Jun-09 1 TEP CECOM Mar-09 Jun-09 1 TEP TEP TECOM Mar-09 Jun-09 1 TEP TECOM Mar-09 Jun-09 1 TEP TECOM Mar-09 Jun-09 TEP TECOM Mar-09 Jun-09 TEP TECOM Mar-09 Jun-09 TEP TECOM Mar-09 Jun-09 TEP TECOM Mar-09 Jun-09 TEP TECOM Mar-09 TEP TECOM TED TED TED TED TED TED TED TE	Weapon System Type: P-1 Line Item Nomenclature: Radio System Type P-1 Line Item Nomenclature: Radio System P-1 Line Item Nomenclature: Radio System Type P-1 Line Item Nomenclature: Radio System P-1 Line Item Nomenclature: Ra	P-1 Line Item Nomenclature: Radio Systems	May 200 Contractor and Location Contract Method & Type CECOM Mar-09 Jun-09 Gestiventy Secoretary Comm, Salt Lake City Ut ris Corp, Melbourne FL

Remarks

				EXHIE	BIT P-2	1, PRODL	JCTIC	N SC	HED	JLE										Date:					Ma	v 2009	9				
Appropriation Code/CC/BA/BSA/Iten	n Control No.						Weap	on Syst	tem					P-1 Ite	em Nom	enclatu	ıre:								ivia	, 2000	,				
Procurement, Marine Corps (1109) /	Communicatio	n and	Electr	onics Equ	ipment (4	1)		•													R/	ADIO S	YSTE	MS							
								PRC	DUCT	ION F	RATE					PRC	CURE	MENT	LEAD	IMITC	ES										
	Manufacturer's		- /	TION				SR		ON		ΑX	AL.	T Pric	or to	ALT	After (Oct 1	I	nitial		Reor	der	Mfg							
ITEM	Manuracturers	NAIVIE	E / LOCA	ATION			IVI	SK	EC	ON	IVI	4.X		Oct 1					Mf	g PL	Г		PLT			TOT	AL	1	Unit c	of I	Measu
AN/PRC-152 (AN/VRC 110)	Harris Corp.	Roche	ester, N	ΙΥ			12	200	72	200	108	300					1			3						4			ea		
AN/PRC-117 (AN/VRC 103)	Harris Corp.	Roche	ester, N	ΙΥ			12	200	30	000	60	00					1			3						4			ea		
AN/PRC-117F	Harris Corp.	Roche	ester, N	ΙΥ			12	200	10	800	144	400					1			3						4			ea		
THHR with SVA	Harris Corp.	Roche	ester, N	ΙΥ			10	000	15	00	20	00					2			1						3		/	ea		
MBR Vehicle Installation System	Harris Corp.	Roche	ester, N	ΙΥ			1	00	2	00	35	50					3			2						5		<u> </u>	ea		
MRC-142 Replacement (HMMWVs)	AM General	, Livoin	na, MI				8	80	6	00	24	00					7			1						8		·	ea		
ANTENNA MODERNIZATION	TRIVEC, UK	(2	00	3	00	55	50					3			2						5			ea		
REMOTE MODERNIZATION	Harris Corp.						1	00	2	00	35	50					3			2						5		<u> </u>	ea		
THHR	Thales Corp	., Clarl	ksburg,	MD			9	00	30	000	60	00					4			8						12			ea		
IISR	UNKNOWN						90	000	18	000	270						2			2						4			ea		
											Fiscal \	ear 20	800										Fis	cal Ye	ar 2009)					B A
														Cal	endar Y	ear 20	80]			Ca	alendar	Year	2009)			L A
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AN/PRC-152 (AN/VRC 110)		Y08		617	0	617						Α			250	250	117											ш			0
AN/PRC-117(AN/VRC 103)		Y08		1268	0	1268								Α			125	250	250		250	143							$\perp \downarrow$		0
AN/PRC-117 (AN/VRC 103)		Y09		161	0	161														Α			125	36					$\perp \downarrow$		0
AN/PRC-117F		Y08		810	0	810		Α			137	137	137	137	137	125												igspace			0
THHR with SVA		Y08	MC	16144	0	16144																					Α	igspace	1500 1	_	13144
MBR Vehicle Installation System		Y08	MC	2000	0	2000																					Α	igspace		200	1800
MRC-142 Replacement (HMMV			МС	145	0	145																					Α	lacksquare			145
ANTENNA MODERNIZATION		Y08		6333	0	6333																					Α	lacksquare		550	5783
REMOTE MODERNIZATION		Y08		1708	0	1708																					Α	igwdap		200	1508
THHR		Y08	MC	836	0	836			Α			250	250	250	86													igspace			0
IISR	F	Y09	MC	3500	0	3500							<u> </u>								Α				1000			ш			0
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THHR with SVA	-	Y08	MC	16144	3000	13144	1500	1500	1500	1500	1500	1500	1500	1500	1144	\vdash					-				-		_	ightarrow	\dashv	- 	0
MBR Vehicle Installation System			MC	2000	200	1800	200	200	200	200	200	200	200	200	200	\vdash									-			\vdash	\dashv		0
MRC-142 Replacement (HMMV		Y08	MC	145	200	145	200	200	200	145	200	200	200	200	200						-				1			\vdash	\rightarrow		0
ANTENNA MODERNIZATION		Y08	MC	6333	550	5783	550	550	550	550	550	550	550	550	550	550	283											\vdash	-+	- 	0
REMOTE MODERNIZATION		Y08		1708	200	1508	200	200	200	200		200	200	108	330	330	200								 			\vdash	\dashv		0
REMOTE MODERNIZATION		100	IVIC	1700	200	1000	200	200	200	200	200	200	200	100														\vdash	\dashv		
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	E	XHIBI	T P-2	1, PR	ODUC.	TION S	CHED	ULE												Date	:				М	ay 20	009				
Appropriation Code/CC/BA/BSA/Item Procurement, Marine Corps (1109) /C		d Electro	nics E	quipmer	nt (4)		Weapo	n Sys	tem					P-1	Item	Nome	enclat	ture:			R	ADIC) SY	STEN		,					
							PF	RODU	ICTIC	ON F	RATE				PF	ROC	URE	MEN	IT LE	AD	TIME	S									
ITEM	Manufacturer's N	AME / LOC	CATION				MS	SR	EC	ON	M	AX		T Pi	rior t 1		T Af			nitia g Pl			eord fg P			TO	TAL		Unit Mea		re
UPGRADE SMART-T-TERMINAL AN/154	RAYTHEON CO	ORP, LAF	RGO FL				1:	2	4	18	6	0					5			3							8		ea		
PHOENIX TSST UPGRADES	L-3 COMMUNIO	CATIONS	, SALT	LAKE CI	TY UT		7:	2	12	20	18	30					3			10						1	13		ea		
LMST ETSSP UPGRADES	HARRIS CORP	, MELBO	URNE I	FL			6	0	12	20	18	30					3			7						1	10		ea		
LMST PIP	HARRIS CORP	, MELBO	URNE I	-L			6	0	37	72	60	00					3			7						1	10		ea		
Wireless Point to Point (WPPL)	Telecommunica	itions Sys	tems (T	CS)			1	0	1	15	2	:0					1			2							2		ea		
VSAT Ka-band Upgrade	General Dynam	ics Richa	rdson,	ГХ			60	00	12	200	18	00					10			1						1	11		ea		
Tactical MPSS	RAYTHEON CO	DRP, LAF	RGO FL				12	00	60	000	120	000		6			2			3						1	11		ea		
										Fisca	al Ye	ar 20	08										Fis	cal Y	ear 2	2009					B A
													(Caler	ndar	Year	2008							Ca	lend	ar Ye	ear 20	09			L A
ITEM	T00.454	F Y	s v c	Q T Y	D E L	B A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N N	JUL	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N N	J U L	A U G	S E P	N C E
UPGRADE SMART-T TERM AN	TSC-154	FY09	MC	9	0	9		-																A			4	4	1	$oldsymbol{}$	0
PHOENIX TSST UPGRADES		FY08 FY08	_	1 12	0	1 12				_							_	_						Α			1	$oldsymbol{oldsymbol{eta}}$	\longrightarrow	-	0
LMST ETSSP UPGRADES LMST PIP		FY09	MC MC	39	0	39				Α							6	6									Α	\vdash	-	39	0
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ITEM		F Y	S V C	Q T Y	D E L	B A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	ZCL	JUL	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N C C	J U L	A U G	S E P	A N C E
Wireless Point to Point (WPPL)		FY09	MC	60	0	60	Α		15	15	15	15																П			0
VSAT Ka-band Upgrade		FY10	MC	139	0	136	Α		14	14	14	14	14	14	14	14	14	10													0
Tactical MPSS		FY10	AF	31	0	31						Α			31													H			0
																												\square			
																_			_												

	Exhib	it P-40, Budget Ite	m Justifica	ation Sheet			Date:		May 2009	
Appropriation / Budget A	•				P-1 Item Nomer	nclature:				
Procurement, M	Marine Corps (1109) / Co	ommunications and Elec	tronic Equipm	ent (4)		Con	nmunication Sw	itching and Co	ntrol Systems	
Program Elements:			Code:	Other Related	Program Elemer	nts:				
0206313M Mari	ine Corps Communication	on Equipment	Α							
	Prior Years	FY 2008	FY 2009	FY 2010	FY 2010 OCC	FY 2010 TOTAL				
Proc Qty										
Gross Cost	729.2	110.4	65.8	98.3	2.0	100.3				
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc (P-1)	729.2	110.4	65.8	98.3	2.0	100.3				
Initial Spares	5.4		0.5							
Total Proc Cost	734.6	110.4	66.3	98.3	2.0	100.3				
Flyaway U/C			•							
Wpn Sys Proc U/C			•							

Joint Communications Support Element (JCSE): Funds the Marine Corps share of efforts to keep the JCSE equipped with the latest state-of-the-art equipment to accomplish its Joint Staff Mission.

EXPEDITIONARY COMMAND & CONTROL SUITE (ECCS): A transit case solution that provides Secret Internet Protocol Router Network (SIPRNet) email and web access, secure Video Teleconference (VTC), Command and Control Personal Computer (C2PC), and collaborative planning with the Defense Information Systems Agency (DISA) Standard to initial response teams t communicate with higher HQ until larger Command and Control (C2) systems are established. This is an On-The-Move/Enroute Capability.

Communications Security (COMSEC): supports Marine Corps interface requirements in a timely and cost effective manner. A continuous emerging requirement to provide the FMF (Fleet Marine Force) with new ancillaries and cable interfaces for interconnection between COMSEC devices and MAGTF C4I systems, C4I IT (Information Technology) Network Security systems, C4IAD (Air Defense) systems, and other systems with interface requirements for stand-alone COMSEC devices during acquisition, implementation, fielding and life cycle.

Tactical Data Network (TDN): Augments the existing MAGTF communications infrastructure to provide the commander an integrated data network, forming the communications backbone for Tactical Data Systems (TDS) and the Defense Messaging System (DMS). TDN consists of Gateways (AN/TSQ-222) and Data Distribution Systems (DDS) (AN/TSQ-228), interconnected with one another and their subscribers via a combination of common user long-haul transmission systems, local area networks (LAN), and switched telephone systems. The TDN PIP rovides a smaller and more mobile variant DDS for the Battalion, Secure Wireless LAN capability for enhanced mobility, integrates security interdiction products into the Gateway, and provides critical refresh of non-Marine Common Hardware Suite (MCHS) network components such as routers, switches, converters, and peripheral tactical gear.

Warfighter Network-Tactical (WFN-T): WFN is a portfolio of systems of tactical network programs. Tactical Data Network (TDN) and First In Command and Control (FICCS) program acquisition rolls up to Warfighter Network in FY 2010. WFN-T will provide a standard data and voice architecture for voice, Secret Internet Protocol Router Network (SIPRNet), Non-Classified Internet Protocol Router Network (NIPRNet), coalition, data, and video services that is interoperable with Joint communications systems. Specifically, it provides interoperability with Defense Information Systems Agency (DISA) net-centric Global Information Grid (GIG) convergence architecture, provides network optimization (accelerators) to best utilize precious satellite and terrestrial bandwidth, replaces copper and fiber optic cable infrastructure assemblies that are outdated, provides Voice over Internet Protocol (VoIP) that efficiently shares the IP transport data, and provides Multi-level security cross domain solutions mandated by the DISA GIG IP convergence (black core).

Transition Switch Module (TSM): A replacement for the Unit Level Circuit Switch (ULCS) family of equipment. It will provide a flexible Unit Level Switch that bridges legacy Tri-Tac switches with current commercial technology to provide Marine maneuver elements with a more robust voice/data switching, data transport and bandwidth management capabilities. This program wi maintain United States Marine Corps (USMC) joint interoperability as all Services transition to Commercial Off-The-Shelf (COTS) switching technologies, Government Off-The-Shelf (GOTS), and Non-developmental Items (NDI) Technical Control and ancillary equipment. The shelter houses a facility management terminal, patch panels, multiplexers, modems, circuit switches, test equipment, Communication Security (COMSEC) equipment, and miscellaneous support equipment.

Exhibit P-40a, Budg	et Item J	lustif	fication for	Aggregate	ed Items			Date:		ı	May 2009		
Appropriation / Budget Activity: Procurement, Marine Corps (1109) / Communications ar	nd Electroni	ic Equ	ipment (4)			P-1 Item Nor	nenclature:	Communic	ation Switc	ching and C	ontrol Syster	ms	
Procurement Items	Code	ШО	Prior Years	FY 2008	FY 2009	FY 2010	FY 2010 OCO						
JCSE	A	D	3051	432	434	422							
		Q											
COMSEC Cable	А	D					1						
		Q											
Various Comm Switching and Control	А	D			4930								
		Q											
To	tal		3051	432	5364	422	1						

	Appropriation/ B	udget Activity/	Serial No:	P-1 Line Item N	Nomenclature:		Weapon Syste	n Type:				Date:	
			9) / Communications and	Communication Systems	on Switching a	and Control						M	ay 2009
	Prior Yrs		FY 2008			FY 2009			FY 2010)	F	Y 2010 O	0
ID CD	Total Cost \$000	Total Cost \$000	Qty Each	Unit Cost \$	Total Cost \$000	Qty Each	Unit Cost \$	Total Cost \$000	Qty Each	Unit Cost \$	TotalCost \$000	Qty Each	Unit Cost \$
				2040 532 665 441	8 4	255000 133000	4335 1862 1220 658	17 14	255000				
	9696 5875 5591	4800 1825 9002 1950 3570 2639 2650 2900	3650 3200 6500 2800 940	500 2813 300 1275 2807	2183 4566			829 10693					
		Procurement, Mar Electronic Equipm Prior Yrs Total Cost \$000 7876 9696 5875	Procurement, Marine Corps (110) Electronic Equipment (4) Prior Yrs Total Cost \$000 7876 4800 1825 9696 9002 1950 3570 5875 2639 2650	Prior Yrs	Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) Prior Yrs FY 2008 Total Cost \$000 Qty Each Unit Cost \$ \$000 1825 3650 500 9696 9002 3200 2813 1950 6500 300 3570 2800 1275 5875 2639 940 2807 5591 2900	Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) Prior Yrs	Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) Prior Yrs FY 2008 FY 2009	Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) Systems FY 2008 FY 2008 Total Cost \$000 Total Cost \$000 Oty Each Unit Cost \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) Prior Yrs	Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) Prior Yrs FY 2008 FY 2016	Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4) Prior Yrs FY 2008 FY 2008 Total Cost \$000 Systems	Procurement, Marine Corps (1109) / Communications and Electronic Equipment (4)	Procurement, Marine Corpre (1109) / Communications and Electronic Equipment (4) Systems

Exhibit P-5	Appr	opriation/ Budget	Activity/Serial No):	P-1 Line Item N	Nomenclature:		Weapon Syste	т Туре:				Date:	
Cost Analysis		urement, Marine (munications and E	,	ment (4)	Communication Systems	n Switching and	l Control						N	1ay 2009
		Prior Yrs		FY 2008			FY 2009)		FY 201	0	FY	′ 2010 C	CO
Weapon System Cost Elements	ID CD	Total Cost \$000	Total Cost \$000	Qty Each	Unit Cost \$	Total Cost \$000	Qty Each	Unit Cost \$	Total Cost \$000	Qty Each	Unit Cost \$	Total Cost \$000	Qty Each	Unit Cost \$
Tactical Data Network														
DDS File Server Software			8500	VAR										
Program Support			3100			1679								
TDN Gateway			94	81	1155									
Data Distribution System (DDS) Upgrades			30500	VAR		16066								
Transition Switch Module (TSM) Deployable Integrated Transport Suite (DITS) Deployable End Office Suite (DEOS) Remote Subscriber Access Module (RSAM) TSM Upgrades TSM Increment II Upgrades TSM Increment III Upgrades Program/Fielding/ILS/Training		32771 107382 50481 38517	4754 11490 5962 12531 1088 2592	90 VAR	441920 62763	1564 12868 11620 2958	VAR VAR VAR		891 3977 941 1341 7236 17657 1633		441920 62763			
Subtota Reserves		229151	80611			46755			33676					

Exhibit P-5 Cost Analysis	Procureme	on/ Budget Activ nt, Marine Corp ations and Elect		nt (4)		n Nomenclatui ion Switching ems		Weapon Sys	tem Type:				Date:	ay 2009
		Prior Yrs		FY 2008			FY 2009			FY 201	0	FY	2010 O	СО
Weapon System Cost Elements	ID CD	Total Cost \$000	Total Cost \$000	Qty Each	Unit Cost \$	Total Cost \$000	Qty Each	Unit Cost \$	Total Cost \$000	Qty Each	Unit Cost \$	Total Cost \$000	Qty Each	Unit Cost \$
Warfighter Network Network Optimiz (Accelerator) TDN VoIP Mod Kits (TSM D) Data Distribution System (DDS) Program/Fielding/ILS/Training									11106 6133 34544 1680	VAR VAR		2043		
Subtotal									53463			2043		
BLI Grand Tota Reserve		258189	109946			60429			97832			2043		

	Exhibit P-5a, Budget Procu	irement H	listory and Planning					Date:	0	
Appropriation / Budget Activity/Serial No:		Waanan C	ystem Type:		P-1 Line It	om Nomor	oloturo	May 200	9	
	ations and Floatnesis Favines ant (4)	weapon S	ystem Type.							
Procurement, Marine Corps (1109) / Communic	ations and Electronic Equipment (4)	Caratra at	•	_		ation Swit	ching and Cont	roi Syste		חר
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method &	Location of PCO	Award Date	Date of First	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn	RFI Issu
Expeditionary Command and Control Suite		Туре			Delivery				Avail	Dat
(ECCS)										
•	TDD	EED	MOSO Overflere	100	000	•	477700			
FY09 BASE STATIONS	TBD	FFP	MCSC, Quantico va	Jun-09	Sep-09	3		Y	NA	N/
FY10 BASE STATIONS	TBD	FFP	MCSC, Quantico va	Jan-10	May-10	2		Υ	NA	N/
FY09 DEPLOYABLE SYSTEMS, RRK	TBD	FFP	MCSC, Quantico va	Jun-09	Sep-09	8		Υ	NA	N.
FY10 DEPLOYABLE SYSTEMS, RRK	TBD	FFP	MCSC, Quantico va	Jan-10	May-10	17	255000	Υ	NA	N.
Y09 DEPLOYABLE SYSTEMS, Cmdr Kit	TBD	FFP	MCSC, Quantico Va	Jun-09	Sep-09	4	133000	Υ	NA	N/
FY10 DEPLOYABLE SYSTEMS, Cmdr Kit	TBD	FFP	MCSC, Quantico Va	Jan-10	May-10	14	133000	Υ	NA	N/
COMSEC CABLE										
Y08 Simple Key Loader (SKL)	L3 Communications Camden, NJ	IDIQ	CECOM & NSA	Mar-08	Jul-08	3200	1500	Υ	NA	N/
FY08 KOV-21 Crypto Engine (CE)	Sypris, Tampa, FL	IDIQ	NSA	Mar-08	Jul-08	3650	500	Y	NA	N/
FY08 Secure Telephone Equipment (STE)	L3 Communications Camden, NJ	IDIQ	CECOM & NSA	Mar-08	Jul-08	3200	2813		NA	N.
FY08 Enhanced Crypto Engine (ECC)	Mykotronics, Gaithersburg, MD	IDIQ	NSA	Mar-08	Jul-08	6500	300	Ý	NA	N.
FY08 OMNI XI	L3 Communications Camden, NJ	IDIQ	CECOM & NSA	Mar-08	Jul-08	2800	1275	Ý	NA	N.
FY08 DATA STE	L3 Communications Camden, NJ	IDIQ	CECOM & NSA	Mar-08	Jul-08	940	2807	Ý	NA	N/
FY08 KG-175	General Dynamics, MA	IDIQ	NSA	Aug-08	Nov-08	VAR	VAR	Y	NA	N.
Y09 KIV-7M	General Dynamics, MA	IDIQ	NSA	Aug-09	Nov-09	VAR	VAR	Y	NA	N/
Factical Data Network (TDN)										
FY08 Gateway Refresh	SPAWAR	FFP	MCSC, Quantico Va	Jan 08	Nov 08	81	1155	Υ	NA	N/
FY08 DDS File Server Software	General Dynamics	FFP	MCSC, Quantico Va	Jan 08	Apr 08	VAR	VAR	Υ	NA	N/
FY08 DDS Upgrades	General Dynamics	FFP	MCSC, Quantico Va	May 09	Aug 09	VAR	VAR	Υ	NA	N/
FY09 DDS Upgrades	General Dynamics	FFP	MCSC, Quantico Va	May 09	Aug 09	VAR	VAR	Y	NA	N/
rsm										
Y08 Transition Switch Module (DITS)	EDO-Darlington, Wando, SC	C/FFP	MCSC, Quantico Va	Jul-08	Sep-08	16	297134	Υ	NA	N/
FY10 Transition Switch Module (DITS)	EDO-Darlington, Wando, SC	C/FFP	MCSC, Quantico Va	Dec-09	Feb-10	3	297134	Υ	NA	N/
Y08 Transition Switch Module (DEOS)	EDO-Darlington, Wando, SC	C/FFP	MCSC, Quantico Va	Jul-08	Sep-08	26	441920	Υ	NA	N/
Y10 Transition Switch Module (DEOS)	EDO-Darlington, Wando, SC	C/FFP	MCSC, Quantico Va	Dec-09	Feb-10	9		Υ	NA	N/
FY08 Transition Switch Module (RSAM)	EDO-Darlington, Wando, SC	C/FFP	MCSC, Quantico Va	Jul-08	Sep-08	90	62763	Y	NA	N/
FY10 Transition Switch Module (RSAM)	EDO-Darlington, Wando, SC	C/FFP	MCSC, Quantico Va	Dec-09	Feb-10	15	62763	Ϋ́	NA	N/
FY08 TSM Upgrades	TBD	C/FFP	MCSC, Quantico Va	Jul-08	Sep-08	VAR	VAR	Ý	NA NA	N.
FY09 TSM Increment II Upgrades	TBD	C/FFP	MCSC, Quantico Va	May-09	Aug-09	VAR	VAR	Ϋ́	NA NA	N.
FY10 TSM Increment II Upgrades	TBD	C/FFP	MCSC, Quantico Va	Dec-09	Feb-10	VAR	VAR	Ϋ́	NA NA	N/
FY09 TSM Increment III Upgrades	TBD	C/FFP	MCSC, Quantico Va	May-09	Aug-09	VAR	VAR	Ϋ́	NA NA	N.
FY10 TSM Increment III Upgrades	TBD	C/FFP	MCSC, Quantico Va	Dec-09	Feb-10	VAR	VAR	Y	NA NA	N/
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FY10 Network Optimiz (Accelerator) TDN	General Dynamics, MA	FFP	MCSC, Quantico Va	Jan 10	Apr 10	VAR	VAR	Υ	NA	N/
. ,		FFP	,					Ý	NA NA	
FY10 VoIP Mod Kits (TSM D)	EDO-Darlington, Wando, SC		MCSC, Quantico Va	Jan 10		VAR	VAR	-		N/
Y10 Data Distribution System - Module	General Dynamics, MA	FFP	MCSC, Quantico Va	Jan 10	Apr 10	VAR	VAR	Υ	NA	N.

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Appropriation Code/CC/BA/BSA/Item C Procurement, Marine Corps (1109) / Co		nd Ele	ctronic	Equipm	ent (4)		Wea	apon	Syste	m				P-1	ltem	Nom	encla			nicati	ions	Switc	hing	and		rol Sy		ns			
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ECCS Base Station	TBD						2	24	4	8	7	2					3			4					Î		7		Е		
ECCS Deployable System, RRK	TBD						2	24	4	8	7	2					3			4					Î		7		Е		
ECCS Deployable System, Cmdr Kit	TBD						2	24	4	8	7	2					3			4							7		Е		
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ECCS Base Station		09	МС	3	0	3																					Α		┢	3	0
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Simple Key Loader (SKL)	L3 Communio	cations C	Camder	n, NJ			2400	6	000	10	000					5			4							9	\neg	Е		
KOV-21 Crypto Engine	Sypris, Tamp	a FL		•			6000	9	9000	12	000					5			4							9	\neg	Е		
Secure Telephone Equipment (STE)	L3 Communio	cations C	Camder	n, NJ			3000	6	000	10	000					5			4							9		Е		
Enhanced Crypto Card (ECC)	Mykotronics (,			6000	ç	9600	12	2000					5			4							9	\neg	E		
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Simple Key Loader (SKL)		FY08	МС	3200	0	3200			1		Α				265	265	265	265	265	265	265	265	265	265	265	250	35	\vdash		0
KOV-21 Crypto Engine		FY08			0	3650		+	1		Α				1000	1000	1000	650								200	100	+		0
Secure Telephone Equipment (ST	E)	FY08			0	3200					Α				350	350	350	350	350	400	350	350	350				T	m		0
Enhanced Crypto Card (ECC)	•	FY08		6500	0	6500					Α				1000	1000	1000	1000	1000	1000	500									0
OMNI XI		FY08	MC	2800	0	2800					Α				950	950	900													0
Data STE		FY08	MC	940	0	940					Α				600	340														0
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Appropriation Code/CC/BA/BSA/Item Control No.						Wea	apon S	Syste	em				P-1	ltem	Nom	encla	ature:													
Procurement, Marine Corps (1109) / Communication	s and Ele	ectronic	Equipm	nent (4)													Co	mmu	unicat	tions	Swit	chine	g and	l Cor	ntrol S	Syste	ms			
						Р	ROD	UCT	ΓΙΟΝ	I RA	TE			PF	ROC	URE	MEN	IT LI	EAD	TIM	ES									
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FY08 DITS Deployable Integrated Transport Suite	EDO D					_	24		20	_	40					9			2							11		Е		
FY08 DEOS Deployable End Office Suite	EDO D					(36		20	_	40					9			2							11		Е		
FY08 RSAM Remote Subscriber Access Module	EDO D					(60	3	60	7	20					9			2							11		Е		
FY10 DITS Deployable Integrated Transport Suite	EDO D					2	24	1:	20	2	40					2			2							4		Е		
FY10 DEOS Deployable End Office Suite	EDO D					(36	1:	20	2	40					2			2							4		Е		
FY10 RSAM Remote Subscriber Access Module	EDO D	arlingto	on, SC			(60	3	60	7	20					2			2							4		E		
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DITS Deployable Integrated Transport Suite	FY08		16	0	16										Α		2	2		2	2	2	2	2	_				$\bigsqcup^{!}$	0
DEOS Deployable End Office Suite	FY08	_	26	0	26										Α		3	3	_	3	3	3	3	3					∟-'	0
RSAM Remote Subscriber Access Module	FY08	MC	90	0	90										Α		10	10	10	10	10	10	10	10	10				└	0
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DITS Deployable Integrated Transport Suite	FY10	MC	3	0	3			Α		3																			\vdash	0
DEOS Deployable End Office Suite	FY10	МС	9	0	9	1		Α		3	3	3														 		1	М	0
RSAM Remote Subscriber Access Module	FY10	_	15	0	15			Α		5	5	5																	П	0
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REMARKS: The TSM IS MADE UP OF 1DITS, 1DE																														

BLI No. 463400 Ex Item No. 31 Page 9 of 9 Production

	Exhibit P-40), Budget Iter	n Justifica	ation Shee	t		Date:		May 2009		
Appropriation / Budget Ad	ctivity/Serial No:				P-1 Item Nomer	nclature:					
Procurement, Marine Cor	rps (1109) / Communica	tions and Electro	nics Equipme	nt (4)		COMM	& ELEC INF	RASTRUCT	URE SUPPOR	RT	
Program Elements: 0206313M Marine	Corps Communication E	Equipment	Code:	Other Relate	ed Program Eleme	ents:					
	Prior Years	FY2008	FY 2009	FY 2010	FY 2010 OCO	FY 2010 Total					
Proc Qty											
Gross Cost	613.0	23.9	15.5	15.5	0.1	15.6					
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc (P-1)	613.0	23.9	15.5	15.5	0.1	15.6					
Initial Spares											
Total Proc Cost	613.0	23.9	15.5	15.5	0.1	15.6					
Flyaway U/C											
Wpn Sys Proc U/C											

DEFENSE MESSAGING SYSTEM (DMS): Supports organizational messaging for all classification levels from GENSER through Top Secret/Sensitive Compartmented Information (TS/SCI). Organizational messaging is used to commit resources and requires security at the Class 4 level. The Defense Information Systems Agency (DISA) is the lead agency and Global System Manager (GSM) for DMS. A favorable Milestone (MS) III decision for unclassified through top secret collateral level messaging was achieved. The Department of Defense Intelligence Information System (DODIIS) is the Operations Manager for the Intelligence Community (IC) to support TS/SCI messaging. Within the Marine Corps, there are two distinct acquisition efforts to field DMS to strategic and tactical communication centers to all classification levels.

BASE TELECOMMUNICATIONS INFRASTRUCTURE (BTI): Provides funding to sustain the base telephone and transmission systems not covered under the Navy Marine Corps Intranet (NMCI) contract which are used to transfer voice, video, data, imagery, etc. aboard Marine Corps bases and stations. These systems also provide users access to worldwide information systems such as the Defense Information Systems Network, the Internet, and various commercial systems. The base telecommunications infrastructure consists of a fiber optic and copper cable distribution systems, multiplexes and high speed transmission equipment capable of supporting any foreseeable bandwidth requirements on demand. Telephone systems use Integrated Switched Digital Network (ISDN) technology to provide integrated and switched voice, video, and data capability.

PUBLIC KEY INFRASTRUCTURE (PKI): A framework of laws, policies, procedures and technologies for the use of digital credentials, which provide confidentiality, integrity, authenticity, and non-repudiation in electronic communications and transactions. PKI allows secure access to Information Technology (IT) systems. PKI has the ability to electronically sign documents, encrypt messages and documents, and to authenticate and protect web access. PKI is an initiative designed to support all USMC users and applications in Public Key Enablement (PKE) and reduce overall cost to the Marine Corps. Marine Corps Systems Command (MSC) has developed and the Department of Defense has adopted a Protection Profile (PP) to provide a standard of "security goodness" against which a PK-Enabled application can be tested. The PKI program is responsible for deploying public key infrastructure to support tactical and SIPRNet users throughout the Marine Corps. This infrastructure includes tokens, card readers, servers and workstations that will support the deployment of Common Access Cards to the operating forces and enhance the Marine Corps Defense-in-Depth posture in accordance with DOI requirements.

Exhibit P-40, Budget Iter	n Justification Sheet	Date: May 2009
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:
Procurement, Marine Corps (1109) / Communications and Electro	nics Equipment (4)	COMM & ELEC INFRASTRUCTURE SUPPORT
Program Elements: 0206313M Marine Corps Communication Equipment	Code: Other Relate	d Program Elements:
to satisfy the demand from operational Marine Air Grintegration of systems within the MAGTF network are data, communication, and transmission systems field makers at Marine Corps Systems Command (MCSC interoperability problems encountered by the Operation of fielding. In addition, the equipment provides the Marine Corps Expeditionary Force (MEF) level MAGTF employed a Cycle Software Support (LCSS) for tactical systems. systems that are fielded. The SIE gives the Marine Copy the MAGTF. MARINE CORPS INFORMATION OPERATIONS Copy the MAGTF. MARINE CORPS INFORMATION OPERATIONS Copy the Marine Copy the Magter and percomprehensive general support IO reach-back capations. Multiple classification levels require separate I and Defense Intelligence Agency (DIA) standards. The data with the existing Marine Corps Base (MCB) Qualiformation assurance (data second content of the company of the corps and company the corps Base (MCB) and the corps support to the corps and the corps are content of the corps and company the corps are content of the corps and company the corps are content of the corps and company the corps are content of the corps and corps are content of the corps are content of the corps are content of the corps are content of the corps are content of the corps are content of the corps are content of the corps and corps are content of the corps are content of the corps are content of the corps are content of the corps are content of the corps are content of the corps are content of the corps are content of the corps are content of the corps are content of the corps are corps are content of the corps are content of the corps are content of the corps are content of the corps are content of the corps are content of the corps are content of the corps are content of the corps are content of the corps are content of the corps are content of the corps are content of the corps are content of the corps are content of the corps are content of the corps are content of the corps are content of the corps are content of the	cound Task Forces (Machitecture. MCTSSA had be to the Operating Forces). This includes testing Forces, and analyzes with a controlled testalone or as part of a John Items are essential to Corps the ability to assess ENTER (MCIOC): Proving the properties of the properties of the properties of the province of the provi	ant and support for the Marine Corps Tactical System Support Activity (MCTSS/AGTFs), staff, and acquisition agencies for support in assessing the level of as established a Systems Integration Environment (SIE) that is made up of the orces. The SIE provides interoperability and integration assessments to decision g and assessing new software and systems, replicating and exploring ing systems for the proper implementation of standards, protocols, and interfact environment that reflects the network configuration of an operational Marine eint Task Force. Equipment is required to support the MCTSSA's effort on Life provide hardware and software support for the Marine Corps tactical data less the usability, functionality, and interoperability of multiple systems employed fides MAGTF commanders and the Marine Corps a responsive and effective fulls (PSYOP) delivery capability by means of deployable support teams and a teter IO into Marine Corps operations. Provides IT infrastructure for voice, video a cort each classification level in accordance with National Security Agency (NSA at necessary for connecting internal MCIOC IT infrastructure (voice, video, and acture. The provides in the marine Corps are sponsive and effective fulls are sponsive and effective fulls. The provides in the marine Corps are sponsive and effective fulls are provided in the provides in the marine Corps are sponsive and effective fulls are provided in the marine Corps are sponsive and effective fulls are provided in the marine Corps are sponsive and effective fulls are provided in the marine Corps are sponsive and effective fulls are provided in the marine Corps are provided in the marine Corps are provided in the marine Corps are provided in the marine Corps are provided in the marine Corps are provided in the marine Corps are provided in the marine Corps are provided in the marine Corps are provided in the marine Corps are provided in the marine Corps are provided in the marine Corps are provided in the marine Corps are provided in the marine

Exhi	bit P	9-40a	- Item Jus	tification f	or Aggre	gated Ite	ms		Date:	May	2009	
Appropriation / Budget Activity Procurement, Marine Co	orps (1	109) /	Communication	ons and Electi	onic Equipm	nent (4)		P-1 Item Nomenclature: COMM &	ELEC INFRAS	TRUCTURE	SUPPORT	
Procurement Items	Code	UOM	Prior Years	FY2008	FY2009	FY2010	FY 2010 OCO					
TACTICAL SYSTEM SUPPORT EQUIPMENT (TSSE)	А	D	3.775	1.066	1.143	1.161	0.000					
		Q										
PUBLIC KEY INFRASTRUCTURE (PKI)	Α	D	6.780	0.684	0.799	0.930	0.000					
		Q										
MARINE CORPS INFORMATION OPERATIONS CENTER (MCIOC)	А	D	0.000	0.000	1.027	0.324	0.000					
		Q										
INFORMATION ASSURANCE ENTERPRISE SOFTWARE (IAES)	А	D	0.000	1.695	0.000	0.000	0.000					
		Q										
										1		
										1		
TOTAL			10.555	3.445	2.969	2.415	0.000					

Exhibit P-5 Cost Analysis		Appropriation, Procurement, Equipment (4)	Marine Cor	•		tions and El	ectronics	P-1 Line Ite COMM & E INFRASTR	LEC		Weapon Sy	stem Type:		2009
Weapon System		Prior Yrs	,	FY 08			FY 09		00.0112	FY 10		F	Y 2010 OC	0
Cost Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	UnitCost \$	TotalCost \$000
DEFENSE MESSAGE SYSTEM (DMS)		33193												
GENSER Tactical Defense Message Systems (REFRESH)	Α		447	14	31954									
TS/SCI Tactical Defense Message Systems	Α		2200	18	122277									
Message System, Digital (Tactical Heavy Suites)	Α		3177	VAR	VAR									
Non-Marine Corps Common Hardware Suite (MCHS) Purchase (Peripherals)	Α		309	VAR	VAR				122	VAR	VAR	64	VAR	VAR
Non-MCHS Hardware Upgrade (TDMS Lite Transit Cases)	Α		2478	VAR	VAR				123	VAR	VAR			
Coop and Storage HW (SANS)	Α								216	VAR	VAR			
BASE TELECOMMUNICATIONS INFRASTRUCTURE (BTI): Base telecommunications systems aboard Marine Corps installations worldwide.	Α	139486	11869	VAR	VAR	12512	VAR	VAR	12655	VAR	VAR			
TOTAL ACTIVE RESERVE RESERVE QUANTITY	D	172679 172679				12512 12512			13116 13116			64 64		

E	Exhibit P-5a, Budget	Procureme	ent History and Plani	ning				Date:	May 2009	
Appropriation / Budget Activity/Serial No:		Weapon Sys	tem Type:		P-1 Line Item	Nomenclature):		,	
Procurement, Marine Corps (1109) / Communication Equipment (4)	ns and Electronics					COMM &	ELEC INFRAS	STRUCTURE	SUPPORT	
WBS Cost Elements:		Contract			Date of First	QTY	Unit Cost	Specs	Date Revsn	RFP Issue
Fiscal Years	Contractor and Location	Method and Type	Location of PCO	Award Date	Delivery	Each	0	Avail?	Avail	Date
FY 08										
DMS										
Tactical Defense Message Systems	Woodland Hills, CA.	C/FP	MARCORSYSCOM	Dec-07	Mar-08	14	31954	NA	NA	NA
DMS TS/SCI Tactical Systems	NORTHROP GRUMMAN, Woodland Hills, CA.	C/FP	MARCORSYSCOM	Apr-09	Aug-09	18	122277	NA	NA	NA
Message System, Digital (Tactical Heavy Suites)	NORTHROP GRUMMAN, Woodland Hills, CA.	C/FP	MARCORSYSCOM	Jun 09	Sept 09	VAR	VAR	NA	NA	NA
Non-Marine Corps Common Harware Suite (MCHS) Purchase (Peripherals)	NORTHROP GRUMMAN, Woodland Hills, CA.	C/FP	MARCORSYSCOM	Apr 08	Jul 08	VAR	VAR	NA	NA	NA
Non-MCHS Hardware Upgrade (TDMS Lite Transit Cases)	NORTHROP GRUMMAN, Woodland Hills, CA.	C/FP	MARCORSYSCOM	Sep 08	Nov 08	VAR	VAR	NA	NA	NA
FY 10										
DMS Coop and Storage HW (SANS)	TBD	C/FP	MARCORSYSCOM	TBD	TBD	\/A.D.	VAR	NIA	NIA	NIA
. ,				TBD				NA	NA NA	NA NA
Non-MCHS Purchase (Peripherals) Non-MCHS Hardware Upgrade	TBD TBD	C/FP C/FP	MARCORSYSCOM MARCORSYSCOM	TBD			VAR VAR	NA NA	NA NA	NA NA

		EXHI	BIT P-2	21, PRO	DUCTIO	N SCHE	DULE	•												Date	e:				Ma	y 200	09				
Appropriation Code/CC/BA/BSA/Item Cor	ntrol No.						Wea	pon S	Svste	m				P-1	Item	Nom	encla	ture:								, =0					
Procurement, Marine Corps (1109) / Com		d Elect	ronics	Equipme	ent (4)				-,											&ELI	EC IN	NFRA	STR	UCT	URE	SUP	POR	۲۲			
							Р	ROD	UCT	ION	RATI	E				PRO	CURE	MEN	NT LE	ADT	TIME:	S									
ITEM	Manufacturer's	NAM	E/LO	CATION			MS	SR	EC	ON	M	4X		T Pri Oct	or to 1	ALT	After	r Oct		Initia Ifg Pl			eord			TO	TAL		Unit Mea	of sure	
DMS Tactical Defense Message System	Northrop Grum (CMS), Woodla			nia Micro	wave Sy	/stems	4	1	2	5	6	0					2			3							5				
DMS TS/SCI Tactical System	Northrop Grum (CMS), Woodla	nman, C	Californ	nia Micro	wave Sy	rstems	4		2		6						9			3							12		T		
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Tactical Defense Message System		08	МС	14		14			Α			3	5	3	3														T		0
DMS TS/SCI TACTICAL SYSTEM		08	MC	18		18							Α				3	5	5	5											0
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REMARKS:						I .									1						I					I		<u> —</u>	—		

	Exhibit P-40, Bu	udget Item Justif	ication She	eet		Date:		May 2009		
Appropriation / Budget Procurement, Marine C	Activity/Serial No: Corps (1109) / Support Veh	icles (5)			P-1 Item Nome		IERCIAL PAS	SENGER VEHIC	LES	
Program Elements: 0206496M Ba	ase Operations, Forces (M	arine Corps)	Code: A	Other Related	l Program Eleme	ents:				
	Prior Years	FY 2008	FY 2009	FY 2010	FY2010 OCO	FY2010 TOTAL				
Proc Qty										
Gross Cost	27.2	1.1	1.2	1.3	0.0	1.3				
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc (P-1)	27.2	1.1	1.2	1.3	0.0	1.3				
Initial Spares										
Total Proc Cost	27.2	1.1	1.2	1.3	0.0	1.3				
Flyaway U/C										
Wpn Sys Proc U/C										

Commercial Passenger Vehicles - Funds in this line are used for the replacement of centrally managed sedans, station wagons and buses at Marine Corps overseas bases and stations and non-tactical passenger vehicles for use in theater. Commercial Passenger Vehicles are acquired through commercial contracting procedures.

Exhibit P-40a, Budget Item Jus	stificat	tion fo	r Aggregate	d Items			Date:		N	lay 2009		
Appropriation / Budget Activity Procurement, Marine Corps (1109) / Support Vehicles (5)					P-1 Item Non	nenclature:		COMMERCIA	AL PASSENGER			
Procurement Items	Code	UOM	Prior Years		FY 2008	FY 2009	FY 2010		FY2010 TOTAL	VEITHOLLO		
i rocurement items	Code	OOW	THOI TEATS		1 1 2000	1 1 2003	112010	1 12010 000	1 12010 TOTAL			
Commercial Passenger Vehicles	Α	D	27.2		1.1	1.2	1.3	0.0	1.3			
		Q			VAR	VAR	VAR	VAR	VAR			
Totals					1.1	1.2	1.3	0.0	1.3			
Active					1.1	1.2	1.3	0.0	1.3			
Reserve					0	0	0	0	0			

	Exhibit P	-40, Budget Item	Justificatio	n Sheet			Date:		May 2009	
Appropriation / Budget Procurement, Marine C	Activity/Serial No: Corps (1109) / Support Ve	hicles (5)			P-1 Item Nome	nclature:	COMME	RCIAL CARGO) VEHICLES	
Program Elements: 0206496M Base Opera	ations, Forces (Marine Co	orps)	Code: A	Other Related	d Program Eleme	nts:				
	Prior Years	FY 2008	FY 2009	FY 2010	FY2010 OCO	FY2010 TOTAL				
Proc Qty										
Gross Cost	74.5	19.6	13.7	13.6	0.0	13.6				
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc (P-1)	74.5	19.6	13.7	13.6	0.0	13.6				
Initial Spares										
Total Proc Cost	74.5	19.6	13.7	13.6	0.0	13.6				
Flyaway U/C										
Wpn Sys Proc U/C										

Description:

COMMERCIAL CARGO VEHICLES - Funds in this line are used for the replacement of centrally managed general purpose heavy duty and light trucks and special purpose trucks; refuse collection trucks; and all types of trailers and motor scooters at bases and stations throughout the Marine Corps. Commercial Cargo Vehicles are procured through General Services Administration (GSA) and the Defense Supply Center Philadelphia (DSCP).

EMERGENCY RESPONSE VEHICLES (ERV) - Funds in this line are used for the replacement of fire fighting apparatuses for maintaining the minimal installations ERV requirements for structural and airfield operations capabilities throughout the Marine Corps.

TACTICAL SUPPORT STRUCTURES FOR THE AN/TPS-59 - The TPS-59 antenna array was fielded in 1984 and suffers from corrosion caused by its operational environment. Four of the TPS-59 Radar Systems are currently installed within radomes and a study, commissioned by the Program Office, concluded that system operating costs are less for a system housed in a dome. Funds will allow the procurement of radomes to house four additional TPS-59 Radar Systems. CONGRESSIONAL FUNDS.

Exhibit P-40a, Budget Item Jus	tificat	ion for	· Aggregated Ite	ems		Date:		May 2009		
Appropriation / Budget Activity Procurement Marine Corps (1109) / Support Vehicles (5)				P-1 Item No	menclature:	,	5006 - COMMERCI	AL CARGO VEHICLE	S	
Procurement Items	Code	UOM	Prior Years	FY 2008	FY 2009	FY 2010	FY2010 OCO			
Emergency Response Vehicles	Α	D Q		0.0	0.0	3.128 VAR	0.0			
Tactical Support Structure for AN/TPS-59 Radar System	Α	D Q		4.800 VAR	0.00	0.00	0.00			
Totals				4.800		3.128	0.0			
Active				4.8		3.1	0.0			
Reserve				0		0	0			

Exhibit P-5 Cost Analysis	Approp Procure Vehicle	riation/ Budge ement, Marine s (5)	t Activity/Se Corps (110	rial No: 9) Support	P-1 Line Ite Commercia Vehicles	em Nomenclatu al Cargo	Weapor	n System T	ype:	Date:		May 2009		
Weapon System	ID 0D	Prior Yrs		FY 08			Y 09			FY 10				
Cost Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	TotalCost \$000
COMMERCIAL CARGO VEHICLES	Α	11975	14833	VAR	VAR	13651	VAR	VAR	10482	VAR	VAR			
Low density procurements of multiple configurations of utility vehicles, cargo trucks, 8-passenger vans, pickups, stake trucks, wreckers, dump trucks, etc).														
TOTAL ACTIVE RESERVE			14833 14833 0			13651 13651 0			10482 10482 0					

	Exhibit P	2-40, Budget Item	Justification	on Sheet			Date: May 2	009		
Appropriation / Budget	Activity/Serial No:				P-1 Item Nomer	nclature:				
Procurement, Marine C	orps (1109) / Support Vehic	cles / 05					5/4T TRU	CK HMMWV	(504500)	
Program Elements:			Code:	Other Related	Program Elemen	its:				
0206315M Ford	ce Service Support Group		Α							
	Prior Years	FY 2008	FY 2009	FY 2010	FY 2010 OCO	FY2010 Total				
Proc Qty	21697	Var	Var	Var	Var	Var				
Gross Cost	2229.1	352.3	180.8	9.8	205.0	214.8				
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc (P-1)	2229.1	352.3	180.8	9.8	205.0	214.8				
Initial Spares	5.9	0.0	0.0	0.0	0.0	0.0				
Total Proc Cost	2235.0	352.3	180.8	9.8	205.0	214.8				
Flyaway U/C										
Wpn Sys Proc U/C										

Expandable Capacity Vehicles (ECV): The ECV is an improved version of the standard Highly Mobile Multipurpose Wheeled Vehicle (HMMWV) based on the M1114 with a heavier chassis and improved engine with the concept and design to apply removable add-on-armor protection that would provide greater tactical flexibility when deploying units.

ECV M1152/M1165: Troop and Shelter Carrier, and Troop/MRC/Command Variants. Base unarmored.

ECV M1152A1/M1165A1: Troop and Shelter Carrier, and Troop/MRC/Command Variants. The A1 depicts these vehicles have Integrated Armor Package with

underbody armor.

ECV M1151A1 wB1 Armor Kit: Armament Carrier
ECV M1152A1 w/B2 Armor Kit: Troop and Shelter Carrier
ECV M1165A1 w/B3 Armor Kit: Troop/MRC/Command Variant
ECV M1167A1 w/B Armor Kit: TOW Missile ECV Variant

MCTAGS / BPMTU (The Marine Corps Transparent Gun Shield and Battery Powered Motorized Traversing Unit) is the Marine Corps protection for the

M1151A1B1 Armament Carrier Gunner.

The current strategy is based on the Marine Requirments Oversight Committee (MROC) guidance of every vehicle having minimal protection with the capability of taking on full armor protection. The procurement strategy is for 60% of the HMMWV fleet being fully armored and 40% of the fleet with the basic Integrated Armor Package (IAP). The basic IAP can be upgraded with additional armor kits.

Exhibit P-5 Cost Analysis		curement, Ma	get Activity/Serial No: arine Corps (1109) / 3 /ehicles / 05			P-1 Line Iter 5/4T Truck			Weapon Sys	tem Type:	Date:	May 2009		
Wasney System		Prior Yrs		/ 08			FY 09			FY 10		F`	10 OCO	
Weapon System Cost Elements	ID CD	TotalCost \$000	TotalCost \$000		UnitCost \$	TotalCost \$000		UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCoat		UnitCost \$
HMMWV M1151/1152 HMMWV M1151A1B1 HMMWV M1152A1 HMMWV M1152A1B2 HMMWV M1165A1 HMMWV M1165A1B3 HMMWV M1167-Tow Missile Carrier w/Armor MCTAGS/BPMTU BPMTU Only HMMWV ILS/ENG/ECPs *HMMWV ECVs (M1151, M1152, M1165, M1167's) with armor.		431354 5223	44,296 7,636 21,156 39,015 46,664 9,250 2,155	79 169 387 325 50	125,186 100,813 143,582 185,000	801 23,172 2,296 154,569	7 747 817	114,539 31020 189,191	6,539 1,712	41	140,419 159,492	8,814 17,177 179,045	1735	34,430 9,900 191,902
*Note: Quantities represent updated estimate of unit cost. The Marine Corps has an urgent requirement to field HMMWV Expanded Capacity Vehicles (ECV) in support of the OEF. The program has exhausted all on hand armored ECVs and is now in the process of modifying the procurement plan in order to successfully transition from OIF sourcing to OEF. Quantities for ECV and MCTAG with BPMTU purchased with FY 09 OCO and FY10 funding are subject to change.														
TOTAL ACTIVE RESERVE		436577 436577	352290 352290 0			180838 180838 0			9796 9796 0			205036 205036 0		

Exh	ibit P-5a, Budget Procurement I	History a	nd Planning					Date:	May 2009	a
Appropriation / Budget Activity/Serial No		vveapon S	system Type:		P-1 Line Ite	em Nomen	clature:	ı	viay 200	9
Procurement, Marine Corps (1109) / Supp	oort Vehicles / 05					5/4T	TRUCK HMMW	/V (50450	0)	
WBS Cost Elements:	Contractor and Location	Contract Method &	Location of PCO	Award Date	Date of First	QTY	Unit Cost \$	Specs	Date Revsn	RFP Issue
Fiscal Years		Туре			Delivery	Each		Avail?	Avail	Date
FY08										
HMMWV M1151A1B1	AM General Corp, South Bend, IN	FFPO	TACOM, Warren, MI.	May-08	Sep-08	281	157636	Yes	N/A	N/A
HMMWV M1152A1	AM General Corp, South Bend, IN	FFPO	TACOM, Warren, MI.	May-08	Sep-08	79	96661	Yes	N/A	N/A
HMMWV M1152A1B2	AM General Corp, South Bend, IN	FFPO	TACOM, Warren, MI.	May-08	Sep-08	169	125186	Yes	N/A	N/A
HMMWV M1165A1	AM General Corp, South Bend, IN	FFPO	TACOM, Warren, MI.	May-08	Sep-08	387	100813	Yes	N/A	N/A
HMMWV M1165A1B3	AM General Corp, South Bend, IN	FFPO	TACOM, Warren, MI.	May-08	Sep-08	325	143582	Yes	N/A	N/A
HMMWV M1167 Tow Missile Carrier with Armor	AM General Corp, South Bend, IN	FFPO	TACOM, Warren, MI.	May-08	Dec-08	50	185000	Yes	N/A	N/A
HMMWV ECVs (M1151, M1152, M1165, M1167's) with armor.	AM General Corp, South Bend, IN	FFPO	TACOM, Warren, MI.	Nov-08	Jul-09	792	186788	Yes	N/A	N/A
HMMWV ECVs (M1151, M1152, M1165, M1167's) with armor.	AM General Corp, South Bend, IN	FFPO	TACOM, Warren, MI.	Jul-09	Nov-09	183	186788	Yes	N/A	N/A
FY09										
HMMWV M1165A1	AM General Corp, South Bend, IN	FFPO	TACOM, Warren, MI.	Nov-08	Mar-09	7	114539	Yes	N/A	N/A
HMMWV ECVs (M1151, M1152, M1165, M1167's) with armor	AM General Corp, South Bend, IN	FFPO	TACOM, Warren, MI.	Jul-09	Nov-09	817	189191	Yes	N/A	N/A
MCTAGS with BPMTU	BAE, Santa Clara, CA	FFPO	Santa Clara, CA	Nov-09	Apr-10	747	31020	Yes	N/A	N/A
FY10										
HMMWV M1152A1B2	AM General Corp, South Bend, IN	FFPO	TACOM, Warren, MI.	Nov-09	Mar-10	11	140419	Yes	N/A	N/A
HMMWV M1165A1B3	AM General Corp, South Bend, IN	FFPO	TACOM, Warren, MI.	Nov-09	Mar-10	41	159492	Yes	N/A	N/A
MCTAGS with BPMTU	BAE, Santa Clara, CA	FFPO	Santa Clara, CA	Nov-09	Apr-10	256	34430	Yes	N/A	N/A
BPMTU	BAE, Akron, OH	FFPO	Santa Clara, CA	Nov-09	Apr-10	1735		Yes	N/A	N/A
HMMWV ECVs (M1151, M1152, M1165, M1167's) with armor	AM General Corp, South Bend, IN	FFPO	TACOM, Warren, MI.	Nov-09	Mar-10	933	191902	Yes	N/A	N/A
REMARKS:										

REMARKS:

FY 07 BUDGET EXHIBIT	FP-21, PRODUCTION SCHEDULE																			Date	:				May	2009					
Appropriation Code/CC/BA/BSA Procurement, Marine Corps (110							Wear	pon Sy	/stem					P-1 Ite	m No	mencla	ature:			-	/4 T=:-	الليام	48.4\4.7	/AO /EC	(AEOO)						
Frocurement, Marine Corps (110	09) / Support Verlicles / 05						1	DDC	DDUC ⁻	TION	DATE		I			PRO			ITIC				/IIVIVV \	/A2 (50	4500)						
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ITEM	Manufacturer's NAME / LOCATION						N	ISR	EC	CON	М	AX		Oct 1	ı	ALI	1	Oct		fg PL		Nec	PL			тот	Δ١		Meas		
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HMMWV ECV	AM General Corp, South Bend,	IN					1	00	1	00	28	83					1						4			5				Е	_
MCTAGS w/BPMTU	BAE, Santa Clara, CA							72		00	_	20			_		1						4			5				Ē	—
BPMTUs	BAE, Akron, OH						Т	BD	TI	BD	20	000					1						4			5				Е	_
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HMMWV ECV		FY07	MC	664	0	664								A				83		83	83	83		83	83					<u> </u>	
HMMWV ECV	450 M4405 M4407(=) with a man	FY08 FY08	MC MC	1291 792	0	1291 792				-				Α				164	161	161 A	161	161	161	161	161			264	264	004	-
	152, M1165, M1167's) with armor 152, M1165, M1167's) with armor	FY08 FY08	MC	183	0	183														А							-	264 A	264	264 183	_
HMMWV ECVS (WITTST, WIT	152, WIT 165, WIT 167 S) WILLI AITHOL	FY09	MC	7	0	7				<u> </u>										Α				7	-		\dashv	А		103	
	152, M1165, M1167's) with armor	FY09	MC	817	0	817																		<u> </u>			1	Α		817	
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ITEM HMMWV ECV		FY08	MC	400	_	183		183		-																	4			$+\!-\!\!\!-$	
	152, M1165, M1167's) with armor	FY09	MC MC	183 817	0	817		161	161	161	161	161	12														\dashv			+	
MCTAGSw/BPMTU	132, WIT 103, WIT 107 S) WILL ALTHOU	FY09	MC	747	0	747		Α	101	101	101	101	50	50	50	50	50	94	100	100	100	100	3				-			+	1
HMMWV ECV		FY10	MC	52	0	52		A				52	30	30	50	50	50	34	100	100	100	100	-				-			+	1
	152, M1165, M1167's) with armor	FY10	MC	933	0	933		A				161	161	161	161	161	128													$\vdash \vdash \vdash$	t
MCTAGSw/BPMTU		FY10	MC	256	0	256		Α					50		50		50	6									1			+	t
BPMTU		FY10	MC	1735	0	1735		Α					170	170	170	170	170	170	170	170	170	170	35								
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	Exhibit P-4	40, Budget Item .	Justificatio	n Sheet			Date:		May 20	009				
Appropriation / Budget	•				P-1 Item Nome	enclature:								
	Corps (1109) / Support Veh	icles (5)		r. —	<u> </u>		MOTOR TRA	ANSPORT N	MODIFICATIO	ONS				
Program Element:			Code: A	Other Related	l Program Elem	ents:								
	Prior Years	FY2008	FY2009	FY2010	FY 2010 OCO	FY 2010 TOT					T			
Proc Qty	1 110 100 100													
Gross Cost	ost 988.9 397.4 15.9 6.1 10.2 16.3													
Less PY Adv Proc														
Plus CY Adv Proc														
Net Proc (P-1)	988.9	397.4	15.9	6.1	10.2	16.3								
Initial Spares		0.0	0.0	0.0	0.0	0								
Total Proc Cost	988.9	397.4	15.9	6.1	10.2	16.3								
Flyaway U/C														
Wpn Sys Proc U/C														
required to addres beneficial suggesti sustainment and lii needs of the Marin Lightweight Mine MTVR, LAV, and J	Vehicle Replacement is operational priorities, ions and other issues the fe-cycle management and Corps. Be Roller - can be attach JERRV/Cougar vehicles reased demand and use	engineering change hat affect vehicle re- and it allows the pro- hed to wheeled vehis to minimize damage	e proposals, liability, avail ogram office t icles to coun ge to vehicle	safety conce lability and re to develop/im ter pressure s and, more i	erns, support e eadiness. A propose in the control initiated Impro- importantly, po	equipment ine roactive and f ovements as ovised Explos revent injury o	efficiencies, tool m focused approach needed to respon sive Devices Threa	nalfunction n ensures p nd to the ev ats. The r	s, product q proper vehic volving rollers can b	quality deficiencies cle pe mounted to HM	s, //MWV,			

Exhibit P-5 Cost Analysis		Appropriation Procurement Vehicles (5)	_	-			MOTOR	Item Nomencl TRANSPORT CATIONS		Weapon	System Type	e:	Date: May 2	2009
Washan System		Prior Yrs		FY 08			FY 09			FY 10			FY 10 OCO	
Weapon System Cost Elements	CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
MTVR MAS MTVR ECPs Lightweight Mine Rollers (Multiple Mine Roller variants for HMMWV, MTVR, LAV, JERRV/Cougar Vehicles) Lightweight Mine Rollers (OCO) (Multiple Mine Roller variants for HMMWV, MTVR, LAV, JERRV/Cougar Vehicles)			335298 62100			15855	VAR	VAR	6111	VAR	VAR	10177	VAR	VAR
Total			397398			15855			6111			10177		

	Exhibi	t P-40, Budget Item	Justificatio	n Sheet			Date: May 2	009			
Appropriation / Budget Ad	ctivity/Serial No:				P-1 Item Nome	enclature:					
Procurement, Marine Cor	rps (1109) / Support	Vehicles (5)				MEDI	UM TACTICAL \	/EHICLE REF	PLACEMENT (N	MTVR)	
Program Elements for Co	ode B Items:		Code:	Other Related	Program Eleme	ents:					
0206315M Force Service	Support Group		Α								
	Prior Years	FY 2008	FY 2009	FY 2010	FY 2010 OCO	FY2010 TOT					
Proc Qty	7395										
Gross Cost	1694.4	78.8	30.8	10.8	131.0	141.8					
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc (P-1)	1694.4	78.8	30.8	10.8	131.0	141.8					
Initial Spares	33.1	0.0	0.0	0.0	0.0	0.0					
Total Proc Cost	1727.5	78.8	30.8	10.8	131.0	141.8					
Flyaway U/C								·			
Wpn Sys Proc U/C											

Medium Tactical Vehicle Replacement (MTVR): The MTVR is a U.S. Marine Corps program that replaced the existing medium tactical motor transport fleet of M809/M939 series trucks with cost-effective, state-of-the-art technologically improved trucks. The MTVR has 22 years of economic useful life and markedly improved performance plus Reliability, Availability, Maintainability and Durability (RAM-D). Major improvements include a new electronically controlled engine/transmission, independent suspension, central tire inflation, antilock brakes, traction control, corrosion control, and safety/ergonomic features.

MTVR Armor System (MAS) Kits - The MAS is designed for the 7-ton MTVR. Intended as a permanent modification to the vehicle. MAS provides complete 360-degree protection overhead and underbody protection for the crew compartment.

- Utilizes Mil-A-46100 High Hard Steel and Metal Composite.
- Includes an upgraded front suspension & cab rebuild
- Removable personnel carrier (with ballistic glass)
- Air conditioning system
- Machine gun mount

Exhibit P-5		Appropriation	n/ Budget Act	ivity/Seri	al No:		P-1 Line Item	Nomenclature:		Weapon	System Type	e:	Date:	
Cost Analysis		Procurement	, Marine Cor	ps (1109)/Support Vehic	les (5)	Medium Tacti	ical Vehicle Replace	ement				May	2009
Wasney System		Prior Yrs		FY 08			FY 09		F'	Y 10			FY 10 OCO	
Weapon System Cost Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
VEHICLES														
Cargo			61869	259	238,878	15582	62	251322						
Cargo XLWB			3821	15	254,770									
Dump			5894	23	256,250									
Wrecker			7114	13	547,202									
MCTAGS w/ BPMTU - MTVR												13300	380	35000
MTVR Drivers Vision Enhancer (DVE)												12220	470	26000
Vehicle Intercom												7363	470	15666
VEHICLES, Armored														
Cargo , Armored						6460	17	380000	4800	12	400000	60400	151	400000
Cargo XLWB Armored						1140	3	380000	2000	5	400000	20800	52	400000
Dump Truck, Armored						1925	5	385000	800	2	400000	6800	17	400000
Wrecker, Armored						2935	4	733786	1698	3	566000	3962	7	566000
Tractor, Armored						1740	4	435000	1200	3	400000	6000	15	400000
TOOL KIT, ORG, MTVR D												58	5	11600
TOOL KIT, OM, F/MTVR DUMP & WRECKER, 7T												72	7	10350
TOOL KIT, IM, F/MTVR DUMP & WRECKER, 7-TON												69	6	11500
MTVR ECP's, Production Testing			85			1050			294					
TOTAL			78783			30832			10792			131044		
Active			78783			30832			10792			131044		
Reserve			. 5. 66			22302			.0702			.5.544		
1,000,10														

	Exhibit P-5a, Budget Procureme	nt Histo	ry and Planning					Date:	May 200	
Appropriation / Budget Activity/Serial No:		Weapon S	System Type:		P-1 Line Ite	em Nomen	clature:		May 200	9
Procurement, Marine Corps (1	109) / Support Vehicles (5)				MEDIUM	I TACTICA	L VEHICLE	REPLAC	CEMENT	(MTVR
WBS Cost Elements:	Contractor and Location	Contract Method &	Location of PCO	Award	Date of First	QTY	Unit Cost	Specs	Date Revsn	RFF
Fiscal Years	Contractor and Location	Type	Location of PCO	Date	Delivery	Each	\$	Avail?	Avail	Issue Date
FY08 MTVR										
MTVR Cargo	Oshkosh Truck Corp. Oshkosh, WI	FFPO	MARCORSYSCOM	Apr-08	Oct-08	259	238878	Yes	N/A	N/A
MTVR Cargo XLWB	Oshkosh Truck Corp. Oshkosh, WI	FFPO	MARCORSYSCOM	Apr-08	Oct-08	15	254770	Yes	N/A	N/A
MTVR Dump	Oshkosh Truck Corp. Oshkosh, WI	FFPO	MARCORSYSCOM	Apr-08	Oct-08	23	256250	Yes	N/A	N/A
MTVR Wrecker	Oshkosh Truck Corp. Oshkosh, WI	FFPO	MARCORSYSCOM	Apr-08	Oct-08	13	547202	Yes	N/A	N/A
FY 09 MTVR										
MTVR Cargo	Oshkosh Truck Corp. Oshkosh, WI	FFPO	MARCORSYSCOM	Jul-09	Mar-10	62	251322	Yes	N/A	N/A
MTVR Cargo, Armored	Oshkosh Truck Corp. Oshkosh, WI	FFPO	MARCORSYSCOM	Jan-10	Sep-10	17	380000	Yes	N/A	N/A
MTVR Cargo XLWB Armored	Oshkosh Truck Corp. Oshkosh, WI	FFPO	MARCORSYSCOM	Jan-10	Sep-10	3	380000	Yes	N/A	N/A
MTVR Dump Armored	Oshkosh Truck Corp. Oshkosh, WI	FFPO	MARCORSYSCOM	Jan-10	Sep-10	5	385000	Yes	N/A	N/A
MTVR Wrecker Armored	Oshkosh Truck Corp. Oshkosh, WI	FFPO	MARCORSYSCOM	Jan-10	Sep-10	4	733786	Yes	N/A	N/A
MTVR Tractor Armored	Oshkosh Truck Corp. Oshkosh, WI	FFPO	MARCORSYSCOM	Jan-10	Sep-10	4	435000	Yes	N/A	N/A
FY 10 MTVR										
MTVR Cargo, Armored	Oshkosh Truck Corp. Oshkosh, WI	FFPO	MARCORSYSCOM	Aug-10	Apr-11	163	400000	Yes	N/A	N/A
MTVR Cargo XLWB Armored	Oshkosh Truck Corp. Oshkosh, WI	FFPO	MARCORSYSCOM	Aug-10	Apr-11	57	400000	Yes	N/A	N/A
MTVR Dump Armored	Oshkosh Truck Corp. Oshkosh, WI	FFPO	MARCORSYSCOM	Aug-10	Apr-11	19	400000	Yes	N/A	N/A
MTVR Wrecker Armored	Oshkosh Truck Corp. Oshkosh, WI	FFPO	MARCORSYSCOM	Aug-10	Apr-11	10	566000	Yes	N/A	N/A
MTVR Tractor Armored	Oshkosh Truck Corp. Oshkosh, WI	FFPO	MARCORSYSCOM	Aug-10	Apr-11	18	400000	Yes	N/A	N/A
MCTAGS w/ BPMTU - MTVR	BAE	FFPO	MARCORSYSCOM	TBD	TBD	380	35000	Yes	N/A	N/A
MTVR Drivers Vision Enhancer (DVE)	TBD	FFPO	MARCORSYSCOM	TBD	TBD	470		Yes	N/A	N/A
Vehicle Intercom	TBD	TBD	MARCORSYSCOM	TBD	TBD	470	15666	Yes	N/A	N/A
REMARKS:										

EXHIBIT P-21, PRODUCTION	ON SCHEDULE																			Date	:				May	2009)				
Appropriation Code/CC/BA/BSA/Ite Procurement, Marine Corps (1		cles (5)							Systei					P-1 I			ME	DIUN				'EHIC	LE F		ĺ			MTVF	₹)		
							PF	ROD	UCT	ION	RAT	Έ			P	PROC	CUR	EME			DTIM	ES									
ITEM	Manufacture	r's NAM	1E / LO	OCATIO	ON		MS	SR	EC	ON	MA	λX		Pric			T Af Oct 1	-	lni	tial N PLT		Reor	der I	Mfg		TOT	ΓAL			Jnit d leasu	
MTVRs (Wrecker/Cargo)	OSHKOSH, Osh	kosh, WI					1:	2	12	00	250	00					6			6						1	0			Е	
MTVR MAS	OSHKOSH, Osh	kosh, WI					1:	2	12	00	250	00					1			8						1	0		_	Е	
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	<u>.</u>									Fis	scal `	Year	08										Fisc	cal Y	ear 0	9					В
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		F	S	Q	D	В	0	N	D	J	F	М	Α	М	J	J	Α	S	0	N	D	J	F	М	Α	М	J	J	Α	S	A N C
ITEM		Y	V C	T Y	E L	A L	C T	0 V	E C	A N	E B	A R	P R	A Y	U N	U L	U G	E P	O C T	0 V	E C	A N	E B	A R	P R	A Y	U N	U L	U	E P	E
ITEM MTVR - Cargo/Wrecker/Dump	Trucks	FY 08	МС	310		310							Α						80	80	80	70							+	\dashv	0
MTVR Cargo Truck,	TITUONS	FY 09		62		62							/\						00	00	- 00	70						Α	+		62
MTVR Cargo Truck, Armored		FY 09		17		17																							工		17
MTVR XLWB Cargo, Truck Arr	nored	FY 09		3		3																									3
MTVR Dump Truck, Armored		FY 09		5		5																							\dashv		5
MTVR Wrecker, Armored MTVR Tractor, Armored		FY 09		4		4																							\dashv	_	4
MTVR Tractor, Affiliored		FY 09	IVIC	4		4										\vdash													+	\dashv	
			ı		<u> </u>					Fis	scal `	Year	10										Fisc	cal Y	ear 1	1				-	В
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ITEM			С	Y	L	L	ı	V	С	N	В	R	R	Y	N	L	G	Р	ı	V	С	N	В	R	R	Υ	N	L	G	Р	
MTVR Cargo Truck,		FY 09		62		62						30	32																\dashv	_	0
MTVR Cargo Truck, Armored		FY 09		17		17				Α								17											_		0
MTVR Cargo Truck, Armored		FY 10	МС	163		163											Α								20	20	25	20	20 2	20	38
MTVR XLWB Cargo, Truck Arr	nored	FY 09	МС	3		3				Α								3											_		0
MTVR XLWB Cargo, Truck Arr	nored	FY 10	МС	57		57											Α								10	10	10	10	10	7	0
MTVR Dump Truck, Armored		FY 09	МС	5		5				Α								5											ightharpoonup		0
MTVR Dump Truck, Armored		FY 10	МС	19		19											Α								3	3	3	3	3	4	0
MTVR Wrecker, Armored		FY 09	МС	4		4				Α								4										\Box	\bot		0
MTVR Wrecker, Armored		FY 10	МС	10		10											Α								2	2	2	2	2		0
MTVR Tractor, Armored		FY 09	МС	4		4				Α								4											\perp		0
MTVR Tractor, Armored		FY 10	МС	18		18										l T	Α			Ī					5	5		5		3	0

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Appropriation Code/CC/BA/ Procurement, Marine Corps			.ES BA-	5						Syste					P-1	Item								/ITVR	₹							
								PI	ROD	UCT	ION	RAT	Ē					URE					ES									
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MTVR	0:	shKosh Tru	uck Coi	p. Os	hKosh,	WI		1	2	12	00	15	00					1						9					_		E	
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MTVR Cargo Truck, Arm	nored		FY 10	МС	163	125	38	20	18																							0
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	Exhibit P-	40, Budget Item	Justificati	on Sheet			Date: May 2009				
Appropriation / Budget	t Activity/Serial No: Corps (1109) / Support Vehic	cles (5)			P-1 Item Nomer		GISTICS VEHICLE	SYSTEM REP	LACEMEN [*]	Γ	
Program Elements:		(-)	Code:	Other Related	l Program Elemer						
02063	15M Force Service Support C	Group	Α								
	Prior Years	FY 2008	FY 2009	FY 2010	FY2010 OCO	FY 2010 Total					
Proc Qty	107	38	537	496	85	581					
Gross Cost	210.8	35.5	293.5	217.4	59.2	276.6					
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc (P-1)	210.8	35.5	293.5	217.4	59.2	276.6					
Initial Spares		0.0	0.4	11.6	0.0	0.0					
Total Proc Cost	210.8	35.5	293.9	229.0	59.2	276.6					
Flyaway U/C											
Wpn Sys Proc U/C											
variants to replace	e System Replacement e the 5 LVS variants. Car will be capable of handlin	goTractor and Wre	cker Variant	s will be procu	ured. The LVSI	R will conduct	the same missions	s as the curre	ent LVS fle	et with the	
variants to replace the Cargo vehicle Flatrack Refuelin required hoses an The FRC is a LVS	e the 5 LVS variants. Car	goTractor and Wre ng payloads of 16.5 e Flatrack Refueling ill be able to provide signed to provide o	ecker Variant tons off roa g Capability de refueling s	s will be procu d as opposed (FRC) will con support to Ma	to 12.5 tons are sist of a 2500 grine Corps force	R will conduct nd will be more gal (threshold) es in unimprov	the same missions mobile in terms of the same missions and the mobile in terms of the mobile in the mobil	s as the curre of speed and gal tank, an	ent LVS fle off-road ri onboard p	eet with the de quality. oump, filter a	exception t

Exhibit P-5	Appro	opriation/ Budg	get Activity/So	erial No:		P-1 Line Item	Nomenclatur	e:	Weapon System	Type:		Date:		
Cost Analysis		urement, Marin cles (5)	e Corps (110	09) / Sup _l	oort	LOGISTICS V REPLACEME		TEM					May 200	9
Weapon System		Prior Yrs		FY 08			FY 09			FY 10			FY 10 O	
Cost Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	TotalCost \$000
LVSR														•
LVSR Cargo Variants		39120	14539	38	382607	195779	509	384634	187829	481	390496	33192	85	390496
LVSR Wrecker Variants						6568	11	597119						
LVSR Tractor Variants						6233	17	366619	5472	15	364786			
Modification Kits (ie. Tow Bar, Armor)		1000	4598			18083			6384			7111		
Integrated Logistics Support		13329	1519			9584			381			237		
Factory Training		5646	318			1099			1085			201		
Special Purpose Tools & Test Equip		958	800			3701			577					
Engineering (includes NRE)		819	1864			1048			556					
Engineering Change Proposals		2773	1108			17740			8269			432		
Product Verification Test		3200				1300			6838					
Warfighting System Integration												10247		
Transportation		77												
Initial Spares			12			11917								
LVSR Trailers												8000	100	80000
Flatrack Refueling Capability (FRC)		1824	7147	46	154000	18808	120	156732						
Defueling Kits			50	10		187	36							
Engineering Change Proposals		46	195		0000	513	00	0200						
First Article Test		432	155			313								
Tool Kits		121	145			60								
Integrated Logistics Support		649	633			576								
Technical Publications		1325	98			98								
Training		36	31			150								
Program Management and Support		2017	16			51								
PLS Trailers		2200												
Flatracks/Cropps			2400	240	10000									
Flatracks/Cropps			2400	240	10000									
TOT. ACTI RESER	VE	75572 75572	35473 35473			293495 293495			217390 217390			59219 59219		

NOTES: FRET costs are included in LVSR unit cost.
Flatrack program was transferred to BLI 509700 in FY10.

Table reflects corrected procurement quantities.

	Exhibit P-5a, Budget Procure	ement His	story and Planning					Date:	May 2009	
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1 ⁻	109) / Support Vehicles (5)	Weapon S	ystem Type:		P-1 Line Ite		clature: /EHICLE SYS	STEM RI	EPLACEMEN	IT
WBS Cost Elements:	Contractor and Location	Contract Method &	Location of PCO	Award Date	Date of First	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issue
Fiscal Years		Туре		Date	Delivery	Each		Avail?	Avaii	Date
LVSR										
FY08 Cargo Variant	Oshkosh Corporation, Oshkosh, WI	FFP	PEO, LS, Quantico, VA	Dec-07	Sep-08	38	382607	Yes	N/A	N/A
FY09 Cargo Variant	Oshkosh Corporation, Oshkosh, WI	FFP	PEO, LS, Quantico, VA	Dec-08	May-09	460	384634	Yes	N/A	N/A
FY 09 Cargo Variant	Oshkosh Corporation, Oshkosh, WI	FFP	PEO, LS, Quantico, VA	Jun-09	Mar-10	49	384634	Yes	N/A	N/A
FY10 Cargo Variant	Oshkosh Corporation, Oshkosh, WI	FFP	PEO, LS, Quantico, VA	Dec-09	Jun-10	481	390496	Yes	N/A	N/A
FY 10 Cargo Variant	Oshkosh Corporation, Oshkosh, WI	FFP	PEO, LS, Quantico, VA	Jun-10	Mar-11	85	390496	Yes	N/A	N/A
FY09 Wrecker Variant	Oshkosh Corporation, Oshkosh, WI	FFP	PEO, LS, Quantico, VA	Dec-08	Sep-09	11	597119	Yes	N/A	N/A
FY09 Tractor Variant	Oshkosh Corporation, Oshkosh, WI	FFP	PEO, LS, Quantico, VA	Dec-08	Jul-09	17	366619	Yes	N/A	N/A
FY10 Tractor Variant	Oshkosh Corporation, Oshkosh, WI	FFP	PEO, LS, Quantico, VA	Dec-09	Jun-10	15	364786	Yes	N/A	N/A
FY10 LVSR Trailers	Oshkosh Corporation, Oshkosh, WI	FFP	PEO, LS, Quantico, VA	Jul-10	May-11	100	80000	Yes	N/A	N/A
Flatrack Refueling Capability (FRC)										
FY07	TBD	SS/FFP	TBD	Sep-09	Dec-09	12	152000	Yes	N/A	N/A
FY08	TBD	SS/FFP	TBD	Sep-09	Dec-09	26	154000	Yes	N/A	N/A
FY08	TBD	SS/FFP	TBD	Jul-10	Oct-10	20	154000	Yes	N/A	N/A
FY09	TBD	SS/FFP	TBD	Jul-10	Sep-10	120	156732	Yes	N/A	N/A
REMARKS:										

	FY 07 BUDG	ET	EXHI	BIT P-	21, PR	ODUC	TIOI	N SC	HE	DUL	_E									Date) :				N	1ay 2	2009				
Appropriation Code/CC/BA/BSA/Item Procurement, Marine Corps (1109) /							Wea	pon S	Syste	m				P-1	Item	Nom	encla			STIC	S VE	HICI	E S\	/STF	M RE			ENT			
r recarement, Marine Gorpo (1100)7	oupport veriloids (o)						PI	ROD	LICT	ION	RΔ	TF			PF	SOC	LIRE		NT L				L 0	1011	IVIINL	I LA	JLIVII	LINI			
							H	(OD	001	1011	10/1	-	۸۱ -	T Dri	or to	_			_	Initia			eord	or					$\overline{}$		
ITEM	Manufacturer's	NAM	1E / LC	CATION	١		M	SR	EC	ON	M	AX		Oct		ALI	1	OCI		ifg Pl			lfg Pl			TO	ΓAL		U	nit of	f Measure
LVSR	Oshkosh Corpo	ratior	n, Oshl	kosh, Wl			1	5	3	0	18	80					2			9			9			1	1		丄		E
FRC	TBD																												<u></u>		
											Ц.																		上		
										Fis	scal	Year	08	A . I			- 00						Fi		Year						A
				1										Cal	enda	ryea	ar U8								Calend	ar Y	ear u	19		—	L A
		F	S	Q	D	В	0	N	D	J	F	М	Α	М	J	J	Α	S	0	N	D	J	F	М	A	М	J	J	Α	S	N C
ITEM		Υ	V	T Y	E L	A L	C T	0 V	E C	A N	E B	A R	P R	A Y	U N	U L	U G	E P	C T	0 V	E C	A N	E B	A R	P R	A Y	U N	U L	U G	E P	E
LVSR Cargo Variant		-V09	MC	38	0	20	-		۸									4	4	1	4	4	4	1	_	_	₩	┢		┢	0
LVSR Cargo Variant			MC	460	0	38 460			Α									4	4	4	4 A	4	4	4	5	5 16	26	32	10	49	288
LVSR Cargo Variant			MC	49	0	49																				10	A	32	43	73	49
LVSR Wrecker Variant			MC	11	0	11															Α						H	┢	╁	2	9
LVSR Tractor Variant			MC	17	0	17															A						\vdash	1	1	1	14
																											\Box				
FRC	F	Y07	MC	12	0	12																						İ		Α	12
FRC	F	Y08	MC	26	0	26																								Α	26
FRC	F	-Y09	MC	120	0	120																									120
										Fis	scal	Year	10										Fi	scal	Year	11					B A
														Cal	enda	r Yea	ar 10							(Calend	lar Y	ear 1	1			L A
		F	S V	Q T	D E	B A	O C	N O	D E	J A	F E	M A	A P	M A	J U	J	A U	S E	O C	N O	D E	J A	F E	M A	A P	M A	J	J	A U	S E	N C
ITEM		Υ	C	Ϋ́	L	Ĺ	T	V	C	N	В	R	R	Υ	N	Ĺ	Ğ	P	T	٧	C	N	В	R	R	Y	N	Ĺ	Ğ	P	E
LVSR Cargo Variant			MC	460	172	288	49	49	49	49	49	_																			0
LVSR Cargo Variant			MC	49	0	49						9	10	10	10	10											₩'	<u> </u>	<u> </u>		0
LVSR Wrecker Variant			MC	11	2	9	4	4	1		_		_	_	_												₩'		<u> </u>		0
LVSR Tractor Variant			MC	17	3	14	1	1	1	1	2	2	2	2	2	40	40	40	40	40	40	40	40	40	40	44		—	-	_	0
LVSR Cargo Variant		Y10	MC	481	0	481			Α						40	40	40	40	40	40	40	40	40			41	25	┢	<u> </u>		0
LVSR Cargo Variant LVSR Tractor Variant		Y10 Y10	MC MC	85 15	0	85 15	ł —		Α						1	1	1	1	1	1	1	1	1	20	20	20	25	┢		 	0
LVSIX Tractor variant	<u>'</u>	1 10	IVIC	13	- 0	13									-	-	'	-	-	-			'				┼─┤	┢	 	┢	0
FRC	F	Y07	МС	12	0	12			4	4	4																\vdash	\vdash	\vdash	\vdash	0
FRC			MC		0	26			2	2		2	2	2	2	2	2	4	4								${}^{+}$	┢	╁		0
FRC			MC		0	20										A			2	6	6	6					H				0
FRC			МС		0	120										Α		8					12	12	12	12	12	12			0
																												ĺ			
																												L			
REMARKS: FRC transfers to BLI	509700 for FY10 and	out.																													

Item No. 41 Page 4 of 4

	Exhibit P	-40, Budget Item	Justificati	ion Sheet			Date:	y 2009			
Appropriation / Budge Procurement, Marine	et Activity/Serial No: Corps (1109) / Support Ve	hicles (5)			P-1 Item Nome	nclature:	FAMILY	OF TACTIC	AL TRAILERS		
Program Elements:		(-)	Code:	Other Related	Program Eleme	ents:			_		
•	5M Force Service Support	Group	Α		Ü						
	Prior Years	FY 2008	FY 2009	FY 2010	FY 2010 OCO	FY 2010 Total					
Proc Qty		328	308	153	153	451					
Gross Cost	176.6	36.5	31.6	26.5	13.4	39.9					
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc (P-1)	176.6	36.5	31.6	26.5	13.4	39.9					
Initial Spares	0.0	0.0	0.8	0.6	0.0	0.0					
Total Proc Cost	176.6	36.5	31.6	26.5	13.4	39.9					
Flyaway U/C											
Wpn Sys Proc U/C											
Flatrack Refueling assembly, and re The FRC is a LVS	M353 General Purpose elop and field trailers was eng Capability (FRC): equired hoses and equence SR-compatible system Group (FSSG) to mee	which will have grand the Flatrack Refipment. The FRC designed to prove	eater mobili fueling Cap will be able vide overwir	ity characteri ability (FRC) e to provide ing and unde	stics while ma will consist o refueling supp	aximizing the f a 2500 gal (port to Marine	commona threshold) Corps for	ity of parts - 3000 (ob ces in unim	across the the jective) gal taproved location	nree trailer pla ink, an onboa ions.	atforms. rd pump, filter

Exhibit P-40a, Budget Ite	em Justif	ication	for Aggreg	ated Item	S		Date: May 2	2009	
Appropriation / Budget Activity Procurement, Marine Corps (1109) / Support Vehicles (5)					P-1 Item Nomer		OF TACTICAL TRA	AILERS	
Procurement Items	Code	UOM	Prior Years	FY 2008	FY 2009	FY 2010	FY 2010 OCO		
Light Tactical Trailers Heavy Chassis	A	D	9.121			0	1.941		
Eight Faction Francis Floavy Chassis	A	Q	375			U	233		
Chassis Trailer- 3/4 Ton	A	D Q			0.048 6		0.850 100		
		Q			0		100		
TRAILER, LOW BED, 40 TON, M-870A2	А	D	4.166	2.000			4.082		
		Q	40	20			48		
TRAILER, LOW BED, 50 TON, M-870AE	A	D	0.900	0.300			0.921		
		Q	9	1			10		
OFMITPLE DEFLICIED 5 000 OAL			0.000				0.040		
SEMI-TRLR, REFUELER, 5,000 GAL	A	D Q	0.900 9				2.618 11		
			-						
Integrated Logistics Support/PM Support	А	D	2.401	3.028	2.705	1.577			
		Q	VAR	VAR	VAR	VAR			
Trailer Ribbon Bridge	A	D		3.700					
		Q		13					
LVOD Tarifar					0.044				
LVSR Trailer	A	D			3.211				
PLS Trailer	Α	D					2.976		
		Q			16		49.0		
Totals			17.488	9.028	5.964	1.577	13.388		
					0.00		10.000		

Exhibit P-5	Approp	riation/ Budg	et Activity/Se	rial No:		P-1 Line Iter	n Nomenclatı	ure:	Weapon Syste	em Type:		Date:		
Cost Analysis	Procure (5)		e Corps (110	, ,,	ort Vehicles	FAMILY O	F TACTICAL	TRAILERS					May 2009	
Weapon System		Prior Yrs		FY 08			FY 09			FY 10			FY 10 OCO	
Cost Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
MTVR Trailers: MTVR Trailers (Cargo) MTVR Trailers (Water) MTVR Trailers (General Purpose) LRIP/First Article Testing, Test Support and Assets Training TDP/Engineering Drawings Program Management and Support			6,596 12,957 2,375 5,546	160 34	80,976 69,841	22,268	275 12 Var Var	40,817 Var	6,093		Var			
Flatrack Refueling Capability (FRC) * Defueling Kits Engineering Change Proposals First Article Test Tool Kits Integrated Logistics Support Technical Publications Training Program Management and Support									6800 42 505	8				
TOTAL ACTIVE RESERVE			27474 27474			25634 25634			24920 24920					

	Exhibit P-5a, Budget Pro	ocurement	History and Planning	I				Date:	May 200	9
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps	(1109) / Support Vehicles (5)	Weapon S	System Type:		P-1 Line It		nclature: / of Tactical Tr			<u> </u>
WBS Cost Elements:	Contractor and Location	Contract Method &	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issue Date
Fiscal Years MTVR Trailer		Туре			Delivery				Avaii	Date
FY08										
MTVR Trailers (Cargo)	CMDC, McAlester, OK	FFPO	MCSC, Quantico, VA	Mar-09	Dec-09	101	65304	YES	N/A	Apr-0
MTVR Trailers (Water)	CMDC, McAlester, OK	FFPO	MCSC, Quantico, VA	Mar-09	Dec-09	160	80976		N/A	Apr-0
MTVR Trailers (General Purpose)	CMDC, McAlester, OK	FFPO	MCSC, Quantico, VA	Mar-09		34	69841	YES	N/A	Apr-0
FY09	, , , , , , , , ,				200 00					7
MTVR Trailers (Water)	CMDC, McAlester, OK	FFPO	MCSC, Quantico, VA	Mar-09	Sep-10	275	80976	YES	N/A	N/A
FY10	, ,				334					
MTVR Trailers (Water)	CMDC, McAlester, OK	FFPO	MCSC, Quantico, VA	Mar-11	Dec-12	110	94943	YES	N/A	N/A
Flatrack Refueler Capability (FRC)										
FY10	тво	SS/FFP	TBD	Jul-10	Oct-10	43	158140	Yes	N/A	N/A

	EX	(HIBI	ГР-	21, P	ROD	UCTI	ON	SCI	HED	JLE										Date:					Ma	y 20	09				
Appropriation Code/CC/BA/BSA/Item (Control No.						Wea	apon	Syste	m				P-1 It	em N	omen	clature	٥.							IVIC	, <u>_</u>					
Procurement, Marine Corps (1109) / S		5)							•						CIII I	OITICIN	olatur		FAMIL	Y OF	TAC	TICAL	TRA		25 (5	00 7 0	10)				
		-,						PR	ODLIC	TION	RATE		1			DDO	CLIDE	MEN				110/12			0,0	007	<u> </u>				
								1 100	5500	TION	I IVAIL	_	ALT.	Prior t	o Oot							Doo	rdor	Ma							
ITEM	Manufacturer's	NAME	/ LC	OCATIO	N		М	SR	EC	ON	M	AX	ALI	1	o Oct	ALT	After	Oct 1	Initia	l Mfg	PLT		rder I PLT	iviig		TO	TAL		Un	it of M	/leasu
MTVR Trailers(Water/Cargo/General)	CMDC, McAles	ster, OK	(1	3	6	7	'2					1			10			9			1	1			Е	
FLATRACK	TBD						1	12	3	0	5	0					23			4			1			2	28			Е	
						E A C O E A E A		ar 08										Fisc	cal Y	ear 0	9										
														Cal	enda	r Yeaı	r 08							С	alen	dar \	ear (09			1
		F	s	Q	D						F	М	Α	М	J	J	Α	S	0	Ν	D	J	F	М	Α	М	J	J	Α	S	
		Y	٧	Т	Е								Р	Α	U	U	U	Е	С	0	Е	Α	Е	Α	Р	Α	U	U	U	Е	
ITEM.		.	С	Υ	L	L	Т	V	С	N	В	R	R	Υ	Ν	L	G	Р	Т	V	С	Ν	В	R	R	Υ	N	L	G	Р	
ITEM	D)	E) (00		205	_	005	<u> </u>																				Ш				
MTVR Trailers(Water/Cargo/Gene MTVR Trailers (Water)		FY08 FY09		295 275	0	295 275	-																	Α			Ш				2
MK970 Semi Trailers		FY09 FY07		73	0	73	<u> </u>	1			-												12	12	12	12	7	6	6	6	
MK970 Semi Trailers		FY07			0	85																	12	12	12	12	5	6	6	68	
MK31 Tractors		FY07		184	90	94	15	15	16	16	16	16															3	٥	U	00	
Light Tactical Trailer		FY07		1290	0	1290	10	10	10		144		144	143	143	143	143	143									\vdash				
Light raction franci		1 107	IVIC	1200	Ů	1230				170	177	144	177	170	140	140	170	140													
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														Cal	enda	r Yeaı	r 10							С	alen	dar \	ear '	11			1 .
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		F	S	Q	D	В	0	N	D	J	F	М	Α	М	J	J	Α	S	0	Ν	D	J	F	М	Α	М	J	J	Α	S	
		Y	٧	Т	Е	Α	С	0	Е	Α	Е	Α	Р	Α	U	U	U	Е	С	0	Е	Α	Е	Α	Р	Α	U	U	U	Е	
ITEM			С	Υ	L	L	Т	V	С	Ν	В	R	R	Υ	Ν	L	G	Р	Т	V	С	Ν	В	R	R	Υ	Ν	L	G	Р	1
ITEM MTVR Trailers(Water/Cargo/Gene	ral\	FY08	MO	295	_	295	H		20	36	36	36	36	36	36	36	7	\vdash									Щ	H			
MTVR Trailers(Water/Cargo/Gene		FY09		295	0	295	-	1	36	30	30	30	30	30	30	30		29	36	36	36	36	36	36	30		$\vdash \vdash$				
MTVR Trailers (Water)		FY10		110	0	110					 						-	23	30	30	30	30	30	Э6 А	30		$\vdash \vdash$				1
Flatrack Refueler Capability (FRC)		FY10		43	0	43	\vdash	1		-	 		1			Α			4	4	4	4	4	4	4	4	4	4	3		<u>'</u>
Tatrack Refueler Capability (FRC)	′	. 110	IVIO	70	_	70	\vdash	1			-		1			$\overline{}$						-	_	_	Η_	_	\dashv	Н	5		
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Exi	hibit P-40, B	udget Iten	n Justificatio	n Sheet		Date:			May 2009		
Appropriation / Budge Procurement, Marine			ehicles (5)	P-1 Item Nor	menclature:		TRAII	LERS, ALL T	YPES		
Program Elements:	rvice oupport	Code: A	Other Relate	ed Program El	ements:						
	Prior Years		FY 2008	FY 2009	FY 2010	FY 2010 OCO	FY 2010 Total				
Proc Qty											
Gross Cost	.0		109.2	8.4	18.1	0.0	18.1				
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc (P-1)	.0		109.2	8.4	18.1	0.0	18.1				
Initial Spares			0.0	0.0	0.0	0.0	0.0				
Total Proc Cost	.0		109.2	8.4	18.1	0.0	18.1				
Flyaway U/C											
Wpn Sys Proc U/C											

TRAILERS, ALL TYPES

The trailers line is made up of temporary facilities that will be purchased to accomodate the Marine Corps' Active Duty End Strength growth from the programmed 175,000 to 202,000. These consist of trailers, expeditionary shelters, & pre-fab structures along with pre-engineered buildings, strung structures, offices, storage containers, armories and sun shades. These shelters will be located throughout the Marine Corps at the following locations: Camp Lejeune, Camp Pendleton, Marine Corps Base Hawaii, Marine Corps Air Stations at Yuma, Miramar and Cherry Point, and the Marine Corps Air Ground Combat Center.

Exhibit P-5 Cost Analysis		oriation/ Budget Act				P-1 Line Item			Weapon S	ystem Typ	e:	Date:		
		ement, Marine Cor	ps (1109) /		cles (5)	TRAIL	LERS, ALL T	/PES					May 20	
	ID	PRIOR YRS		FY 08			FY 09			FY 10			FY 10 O	
Weapon System Cost Elements	CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$OOO	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
Family of Relocatable Trailers			109152	VAR	VAR	8399	VAR	VAR	18122	VAR	VAR			
TOTA ACTIV RESERV	Έ		109152 109152			8399 8399			18122 18122					

	Exhibit F	P-40, Budget Iten	n Justifica	tion Sheet			Date: May 2009		
Appropriation / Budget Procurement, Marine (Activity/Serial No: Corps (1109) / Support Veh	nicles (5)			P-1 Item Nomen	clature:	,	S THAN \$5M	
Program Elements: 0206313M Marine Cor	ps Communication Equipm	nent	Code: B	Other Related	d Program Elemen	ts:			
	Prior Years	FY 2008	FY 2009	FY 2010	FY 2010 OCO	FY 2010 Total			
Proc Qty									
Gross Cost	85.8	16.9	5.4	5.9	0.0	5.9			
Less PY Adv Proc									
Plus CY Adv Proc									
Net Proc (P-1)	85.8	16.9	5.4	5.9	0.0	5.9			
Initial Spares									
Total Proc Cost	85.8	16.9	5.4	5.9	0.0	5.9			
Flyaway U/C									
Wpn Sys Proc U/C									

This is a roll-up line containing many different support vehicle related items of equipment less than \$5 million each. The funds included in this budget line allow procurement of the following items:

Motor Transport Modifications- Funds Marine Corps unique improvements to fielded Ground Transportation Systems, to include any required government or contractor configuration management for technology improvement insertions to increase Reliability Availability Maintainability-Durability (RAM-D), for total ownership life-cycle cost reductions, and to resolve unexpected vehicle safety concerns.

Marine Security Guards - Provides various types of vehicles for the Marine Security Guard depending on the requirement of the command/country. The varie includes heavy duty vans, club wagons, caravans, land cruisers and mini-buses.

Military Motorcycle Program - Will reconfigure the existing M1030B1(Kawasaki 650cc gasoline engine) with the JP8/diesel (mandated one fuel battlefield requirement) engine package.

Motor Transport Tool Kits - Procure tool kits in support of the Motor Transport Legacy systems.

Exhibit P-40a, Budget Iten	ı Justi	ficatio	n for Aggre	gated Iten	ıs		Date: Ma	y 2009	
Appropriation / Budget Activity Procurement, Marine Corps (1109) / Suppo	ort Vehic	cles (5)			P-1 Item Nom		S THAN \$5M		
Procurement Items	Code	UOM	Prior Years		FY 2008	FY 2009	FY 2010	FY 2010 OCO	
Motor Transportation Modification	Α	D	66.4		3.0	2.7	2.8		
		Q	VAR		VAR	VAR	VAR		
Armored HMMWV Jack	Α	D				0.089			
		Q				46			
Tactical Fuel System	Α	D				1.300			
		Q				2			
Military Motorcycle	Α	D			3.5				
		Q			214				
M870A2S (26) 40 Ton Trailers	А	D			2.2				
		Q			26				
Totals			66.4		8.739	4.131	2.774		

Exhibit P-5, Cost Analysis		oriation/ Budget curement, Marin					em Nomencla		3000)	Weapon Sys	tem Type:	Date:	May 200	9
		Prior Yrs		FY 08	. ,		FY 09	,		FY 10			FY 10 OC	
Weapon System Cost Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000		TotalCost \$000
Marine Security Guard		13500	8198	VAR	VAR		VAR	VAR		VAR	VAR			
TOTAI ACTIVE RESERVE	≡	13500 13500				1292 1292			3174 3174					

	Exhibit P-	-40, Budget Item	Justification	on Sheet			Date:	May 20	009	
Appropriation / Budget	Activity/Serial No:				P-1 Item Nomen	nclature:	<u> </u>	· · · · · · · · · · · · · · · · · · ·		
Procurement, N	Marine Corps (1109) / Engir	neer and Other Equip	ment (6)			ENVIRO	NMENTAL CONTRO	L EQUIPMENT, A	SSORTED	
Program Elements:			Code:	Other Related	d Program Elemer	nts:				
020631	0206315M Force Service Support Group A Prior Years FY 2008 FY 2009 FY 2010 FY2010 OCO FY2010 Total									
	Prior Years	FY 2008	FY 2009	FY 2010	FY2010 OCO	FY2010 Total				
Proc Qty										
Gross Cost	302.4	13.3	9.7	5.1	5.1	10.2				
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc (P-1)	302.4	13.3	9.7	5.1	5.1	10.2				
Initial Spares										
Total Proc Cost	302.4	13.3	9.7	5.1	5.1	10.2				
Flyaway U/C										
Wpn Sys Proc U/C										

The Environmental Control Equipment program procures refrigeration units and commercial air conditioners for cooling, dehumidifying, heating, filtering, and circulating air within electronic maintenance shops, radar systems, communications centers, and data computer systems.

		FY2008	FY2009	FY2010 FY	2010 OCO	FY2010
Active	Gross Cost	8.007	5.374	0.768	5.119	5.887
Reserve	Gross Cost	5.317	4.361	4.353	0.000	4.353
Total	Gross Cost	13.324	9.735	5.121	5.119	10.240

Exhibit P-40a, Budget Item Justification	for A	ggrega	ated Items		Date:			May 2009			
Appropriation / Budget Activity				P-1 Item No	omenclature:			Way 2009			
Procurement, Marine Corps (1109) / Engineer and C	ther Ed	quipmen	nt (6)		omonoiataro.		NVIRONMENTAI	CONTROL EQUIPM	ENT, ASSORTI	ED	
Procurement Items	Code		Prior Years	FY 2008	FY 2009	FY 2010	FY2010 OCO				
Environmental Control Equipment Integrated	Α	D	23.884	1.924	2.051	1.355	3.375				
		Q	VAR	VAR	VAR	VAR	VAR				
Commercial Air Conditioners											
.75 Ton (9,000 BTU) ECU	Α	D		1.292	0.457	0.445					
		Q		167	60	50					
1.5 Ton (18,000 BTU) ECU	A	D	1.244	3.261	0.409	0.240	0.132		+ +		
1.5 1011 (10,000 010) 200	A	Q	170	420	55	31	12		+ +		
		Q	170	420	33	31	12				
3 Ton (36,000 BTU) ECU	Α	D		1.031	1.039	0.350					
(//		Q		74	87	35					
5 Ton (60,000 BTU) ECU	Α	D	4.057		0.091	0.273	0.040				
	Α	Q	133		50	15	2				
10 Ton (120,000 BTU) ECU	Α	D		1.764		0.225					
		Q		67		30					
							<u> </u>				
Refrigeration Unit/Rigid Box	Α	D	1.294								
		Q	VAR								
Coroll Field Defrigaceation Contact (CEDC) (contact Defric Digid how 250 Cl	_	D		2.485		4 457	-				
Small Field Refrigeration System (SFRS) (replaces Refrig Rigid box 350 Cl	Α	Q		119		1.457 50					
		Q		119		50					
Large Field Refrigeration System (LFRS) (replaces Refrig Rigid Box 350 Cl	Α	D			4.966	0.062	1.572				
		Q			150	2	68				
Tool Kit Refrigeration	Α	D	1.302	1.327	0.361						
		Q	134	138	51						
Warranties, ILS and CLS Support	Α	D	2.038	0.240	0.361	0.714					
		Q									
						<u> </u>					
Totals		-	33.819	13.324	9.735	5.121	5.119				
Active		-		8.007	5.374	0.768	5.119				
Reserve	<u> </u>	<u> </u>		5.317	4.361	4.353	0.000				

	Exhibit P-40, B	udget Item Just	ification Sh	eet		Date: May 20	009			
Appropriation / Budget	Activity/Serial No:			P-1 Item Nome	enclature:					
Procurement, Marine C	Corps (1109) / Engineer and	Other Equipment (6)				BU	ILK LIQUID EQUIP	MENT		
Program Elements:		Code:	Other Related	Program Eleme	ents:					
0206315M Ford	ce Service Support Group	А								
	Prior Years	FY 2008	FY 2009	FY 2010	FY 2010 OCO	FY 2010 TOTAL				
Proc Qty										
Gross Cost		19.9	13.5	13.0	4.5	17.6				
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc (P-1)		19.9	13.5	13.0	4.5	17.6				
Initial Spares										
Total Proc Cost		19.9	13.5	13.0	4.5	17.6				
Flyaway U/C										
Wpn Sys Proc U/C										

BULK LIQUID EQUIPMENT This line is a roll up line that contains the Lightweight Water Purification System (LWPS), the Tactical Water Purification System (TWPS formerly the Enhanced Reverse Osmosis Water Purification Unit), and the Family of Water Supply Support Equipment. The LWPS is a small, modular, self-contained system that uses filtration and reverse osmosis technology to produce 75 to 125 Gallon Per Hour (GPH) of potable water from fresh, brackish, salt, and nuclear, biological, and chemical (NBC) contaminated water. This capability is necessary to provide safe and potable water to battalion sized or smaller units in an expeditionary environment or in extended company operations. TWPS provides the Marine Air Ground Task Force with an enhanced capability to produce potable water from salt, brackish, fresh, and nuclear, biological and chemical contaminated water sources at a rate of 1,500 GPH in expeditionary environments. The Family of Water Supply Support Equipment is comprised of 24 different items procured on a continuous buy. It includes all water assets associated with the storage and distribution of potable water, such as tanks, pumps, showers, water heaters, water test sets, containerized batch laundry units and the expeditionary water packaging system which places the purified water from the LWPS and TWPS into bags ranging from 1 to 3 liters. Funds combat operations, force protection, and replacement of equipment items; funds extended company operations; funds restoration of Marine Corps unit capability to pre-war level; and funds equipment for pre-deployment training.

Active	Gross Cost	FY2008 19.9	FY2009 12.3	FY2010 11.2
Reserve	Gross Cost		1.2	1.8
Total	Gross Cost	19.9	13.5	13.0

Exhibit P-5		riation/ Budget					m Nomenclat		Weapon Sys	stem Type:		Date:		
Cost Analysis	Procure	ement, Marine Prior Yrs	Corps (1109) /	FY 08	and Other	Bulk	Liquid Equip	ment		FY 10			May 200	
Weapon System Cost Elements	ID CD	TotalCost \$000	TotalCost \$000		UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000		UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
Lightweight Water Purification System Integrated Logistics Support (Fielding Supt)		1885 1114	1993 206		110746	6756 716		110746	4430 442		110746	2658	24	110746
Family of Water Supply Support Equipment (Various Tanks, Pumps, Pump Modules, Field laundry Units, Water Purification Systems)		6762	17740	VAR	VAR	6033	VAR	VAR	8163	VAR	VAR	1891	VAR	VAR
TOTAL ACTIVE RESERVE		9761 9761	19939 19939			13505 12256 1249			13035 11267 1768			4549 4549		

Exhi	bit P-5a, Budget Procureme	ent Histo	ry and Planning					Date:	May 200	9
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Engineer	and Other Equipment (6)	Weapon S	System Type:		P-1 Line I		nclature: K LIQUID E			
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method & Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issue Date
Lightweight Water Purification System (LWPS) FY-08 FY-09 FY-10	TerraGroup Corp; Allentown, PA TBD TBD	FFP FFP FFP	MCSC, Quantico, VA MCSC, Quantico, VA MCSC, Quantico, VA	Mar-09 Jun-09 Oct-09	Sep-09 Sep-09 Jan-10	18 61 64	110746 110746 110746	Yes Yes Yes	N/A N/A N/A	N/A N/A N/A
REMARKS:										

E	XHIBIT P-21, P	RODU	СТІ	ON	sc	HE	DU	LE												Date) :				Ma	ay 2	009				
Appropriation Code/CC/BA/BSA/Item Control No. Procurement, Marine Corps (1109) / Engineer and	d Other Equipment	(6)					We	eapo	n Sy	sten)			P-1	Iten	n Nor	nend	clatu		BULI	(LI	QUII	DΕ	QU	IPM	EN	-				
							PΕ	ROD	UC	IOIT	N R	AΤΕ		Ρ	RO(CUR	ЕМІ	ENT	LE	EAD	TIN	ΛES									
ITEM	Manufacturer's	NAME /	LOC	ATIC	N		Ν	/ISR	EC	CON	M	AX	AL	T Pı	ior	AL	T Aft	ter	١	nitia		Red	orde	er	7	ГОТ	AL	ľ	Meas	sure	
Lightweight Water Purification System (LWPS)	TerraGroup Corp	o: Allento	own,	PA				12	Ĺ	12	1	2					20			3				4		23	}	— F	E	_	
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ITEM		F Y	S V C	Q T V	D E I	B A	O C T	N O V	D E C	Α	F E B	M A R	A P R	M A Y	Z O L	J U L	A U G	_	O C T	N O V	D E C	Α	F E B	M A	A I	M A	J	J	A U G	S E P	A N C E
Lightweight Water Purification System (LWP	9)	FY08			Ļ	18	_	· ·	U	IN	В	IX	IX	<u>'</u>	IN	_	G		_	٧	C	IN	-	A	IX	+		+	_	4	0
Lightweight Water Purification System (LWP	,	FY09				+	-																T		\dagger	t	A	\forall	\dashv	8	53
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ITEM		F Y	S V C	Q T Y	D E L	B A L	O C T	0	D E C	J A N	F E B	M A R	A P R	M A Y	J	J U	A U G	S E P	O C T	N O V	D E C	Α		Α	Ρ.		U		A U G	S E P	N C E
ITEM Lightweight Water Purification System (LWP	9)	FY08				14	_		4	4-	Б	К	Т	<u>'</u>	IN	L	G	г		v	U	IN	٥	11	IX.	+	N	\dashv	9	_	0
Lightweight Water Purification System (LWP		FY09		_	_	-			_	-	6	6	6	5						+		+	\dashv	+	+	+	+	十	十	\dashv	0
Lightweight Water Purification System (LWP		FY10		_		64			Ť	4		6	6	_	12	12	11	1		1		T	\dashv	1	\top	\dagger	T	十	寸	\neg	0

	Exhibit P-40, Bu	udget Item Justi	fication She	eet		Date: May 2	2009			
Appropriation / Budget Ad Procurement, Marine Cor	-	d Other Equipment (6		P-1 Item Nom	enclature:		TACTICAL	FUEL SYSTEM	1S	
Program Elements: 0206315M Force	Service Support Group	Code: A	Other Related	l Program Elem	ents:					
	Prior Years	FY 2008	FY 2009	FY2010	FY2010 OCO	FY2010 Total				
Proc Qty										
Gross Cost		37.1	31.6	35.1	33.4	68.5				
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc (P-1)		37.1	31.6	35.1	33.4	68.5				
Initial Spares										
Total Proc Cost		37.1	31.6	35.1	33.4	68.5				
Flyaway U/C										
Wpn Sys Proc U/C		37.1	31.6	35.1	33.4	68.5				

Tactical Fuel Systems is a rolled line that contains highly versatile fuel systems designed to receive, store, transfer and dispense fuel in support of Marine Air Ground Tactical Force (MAGTF) operations ashore. This program provides over 108 various upgraded elastomeric components to Tactical Fuel Systems, Amphibious Assault Fuel System, Helicopter Expedient Refueling System, Expedient Refueling System, 500-Gallon Collapsible Fabric Drum, Tactical Airfield Fuel Dispensing System, 600 GPM Pump, Hose Reel System, Fire Suppression System and Tactical Petroleum Laboratory Medium, which have met or exceeded the shelf life time limit.

		FY2008	FY2009	FY2010	FY2010 OCO	FY2010 Total
Active	Gross Cost	37.1	28.7	29.8	33.4	63.2
Reserve	Gross Cost	0.0	2.9	5.3	0.0	5.3
Total	Gross Cost	37.1	31.6	35.1	33.4	68.5

Exhibit P-40, Budget Item Justification Sheet	Date: May 2009
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Engineer and Other Equipment (6)	P-1 Item Nomenclature: TACTICAL FUEL SYSTEMS
	rel storage and distribution capability (Ground Expedient Refueling Systems, GERS); a fuel system (FAQQS) that interfaces with common logistics support systems. The Expeditionary ositioned Ships (MPS).
Transportable by any vehicle (HMMWV or larger), it requires only incidental operators a various logistics and weapons platforms as a fuel distribution vehicle, or as a range-extensive Six 28-gallon collapsible bladders and associated dispensing equipment are grouped in systems. These provide a highly flexible and tailorable distribution capability that match the Expeditionary Fuel System (EFS) Portable Fuel Analyzer (PFA)will enhance the and capitalize captured and indigenous fuel on the battlefield for real-time fuel manager Compatible with 24 volt military vehicle. The portable fuel analyzer designed to identify	cceptable type and quality of captured fuel stocks for Marine Air Gound Task Force (MAGTF)
The Expeditionary Fuel System Integrated Fuel Quality and Quantity Report System information for more efficient and timely logistics responsiveness. All three elements of with current equipment because of its bulk and weight	enis the final capability that will provide real-time fuel consumption, level and quality f the EFS work in concert with each other to provide an expeditionary capability unattainable

Exhibit P-5 Cost Analysis		Appropriation Procurement							Weapon Sy	stem Ty	ре:	Date:		
		Engineer ar				TACTICAL	FY 09	SYSTEMS		FY 10			May 2009	
Weapon System Cost Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000		UnitCost \$
Weapon System Cost Elements Tactical Fuel System Components (Various Collapsible Fabric Tanks, 50K, 20K, 3K capacity) (Various Fuel Bladders, 500 gall, 20K capacity) (Various Petroleum Test Kits, fire Suppression Systems) (Various Pumps and Dispensers) Expeditionary Fuel System	CD			Each	\$	\$000	VAR	VAR	\$000 6129	Each	\$ VAR	\$000 33421		
Total Active Reserve			34304 34304			31651 28791 2860			35059 29801 5258			33421 33421		

	Exhibit	P-40, Budget Item	Justificatio	n Sheet			Date: May	2009		
Appropriation / Budg	et Activity/Serial No:				P-1 Item Non	nenclature:				
Procurement, Marine	e Corps (1109) / Engi	neer and Other Equipm	nent (6)					POWER EQU	JIPMENT	
Program Elements:			Code:	Other Relate	ed Program Ele	ements:				
0206313M FORCE	SERVICE SUPPORT	GROUP	Α							
	Prior Years	FY 2008	FY 2009	FY 2010	FY2010 OCO	FY2010 Total				
Proc Qty										
Gross Cost	104.0	90.0	52.6	21.0	24.9	45.9				
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc (P-1)	104.0	90.0	52.6	21.0	24.9	45.9				
Initial Spares										
Total Proc Cost	104.0	90.0	52.6	21.0	24.9	45.9				
Flyaway U/C										
Wpn Sys Proc U/C										

Family of Power Equipment - This joint DoD program includes mobile electric power equipment used throughout the Fleet Marine Forces and Reserves. These are centrally managed items. Sizes and types of Generators and Mobile Electric Power Distribution Systems range from 2 kW to 100 kW in both 60HZ and 400HZ. All generators are selected from the standard family of DoD Mobile Electric Power (MEP) sources. Current generators are from the "Tactical Quiet Generator" (TQG) family. The generators are operationally linked with Command, Control, Communications, Computers and Intelligence (C4I), weapons systems, and all systems requiring electrical power. C4I systems are increasing in power demand, which continues to drive the demand for generators and power distribution sets. C4I and supported weapons systems readiness is directly affected as power equipment readiness decreases. Current average age of generators is greater than 20 years. This program is based on the continuous replacement of generators that have exceeded their lifecycles with ones that incorporate environmental, safety, and performance enhancements.

Advanced Medium Mobile Power Sources (AMMPS). With increasing EPA emission standards, the DoD is developing and will be fielding the AMMPS family towards the end of the decade. As the 10-year TQG contracts close-out, they will not be renewed and AMMPS will be the next generation of DoD standard generators.

Mobile Electric Power Distribution Systems (MEPDIS) provide a modernized standard family of Mobile Electric Power Distribution Systems to meet Marine Corps power requirements to support a variety of C4I systems and expeditionary forces. MEPDIS is a centrally managed, continuous fielding/replacement effort as systems are damaged, destroyed, or consumed during normal operations. MEPDIS consists of 20 separate components that are configured into capability sets.

Alternative Power Sources for Communication Equipment (APSCE) consists of a suite of devices used to provide power to operate communications equipment, computers and peripheral equipment in place of primary batteries (disposable, one time use, lithium batteries) and for scenarios where fuel powered generators are too large, too heavy or unsuitable for use. The purpose of the program is to reduce the use of limited availability batteries, especially hazardous material producing ones, to those applications where they are the only appropriate tactical choice.

On-Board Vehicle Power (OBVP) will field upgraded alternators and wiring harnesses to HMMWVs and MTVRs in theater to provide increased electrical capacity necessary to power improved Counter-improvised explosive device (IED) jammers and other on-board power accessories.

Exhibit P-40a, Budget Ite	m Ju	ıstifica	tion for Aggı	regated Ite	ms		Date:	May 2009						
Appropriation / Budget Activity			in (0)		P-1 Ite	em Nomencl	ature:	- 1	VED FOLUDIA	- NIT				
Procurement, Marine Corps (1109) / Engineer a					EV 2000	EV 2000	EV2040		VER EQUIPME	IN I	1	1	1	
Procurement Items	Code	UOM	28.000		FY 2008	FY 2009	FY2010	FY2010 OCO						\vdash
			20.000											
Alternative Power Sources for Comm/Elect Equip	Α	D	6.381		2.900	2.915	1.000	4.637						
		Q	VAR		VAR	VAR	VAR	VAR						
2KW MEP 531	Α	D	3.440		0.815	0.179	0.265							
		Q	394		93	34	50							
3KW MEP 831	Α	D	0.784		1.700	2.115	1.106							
SKW WEF 631	A	Q	77		1.700	2.113	100							
						200	100							
5KW MEP 802	Α	D			0.740									
		Q			5									
10KW MEP 813	Α	D			2.294	4.727	0.325							igsquare
	1	Q			36	27	10							
10 KW MEP 803	Α	D	0.219		1.607	2.745	2.752			 				\vdash
TO IXVV IVILE 000	_ A	Q	12		92	150	150			 	1			\vdash
		Q	12		32	130	130							\vdash
25KW MAGNUM	Α	D			0.727									
		Q			VAR									
30KW MEP 805	Α	D	0.924		1.596		4.008							
		Q	35		56		125							
00/04/4550 045		_			0.050		2 222							
30KW MEP 815	Α	D Q			0.352 10		0.366 10							
		Q			10		10							
60KW MEP 806	Α	D	2.923		0.755		3.096							
		Q	VAR		21		80							
60KW MEP 816	Α	D			0.844	2.041	0.219							
		Q			20	50	5							
	L .													<u> </u>
100KW MEP 807	Α	D	5.526		0.754	0.754								
		Q	10		47	10								┼
MEPDIS-R	Α	D	3.731				3.396	0.935						
INC. DIO IX	<u> </u>	Q	VAR				VAR	VAR						
Floodlights	Α	D						0.440						
		Q						VAR						
	L .													<u> </u>
Power Converters/Supplies/Chargers	Α	D	4.044		2.000	4.892	2.116			1	}	-		\vdash
	1	Q	VAR		VAR	VAR	VAR			1	1			\vdash
Analyzer Charger Batteries	Α	D	2.548		3.700	4.710	1.707			†				\vdash
y_Di Gridigoi Ballonio	<u> </u>	Q	VAR		VAR	VAR	VAR			t				
Renewable Energy	Α	D				2.000								
		Q				VAR								
D	<u> </u>	_												
Power Equipment Logistics Support Items	Α	D	1.984		3.200	3.265	0.677			-				\vdash
	 	Q	VAR		VAR	VAR	VAR	-		-				\vdash
Integrated ECU Trailer-Generator (ITEG)	Α	D			4.600									\vdash
	_	Q			VAR					†				\vdash
		<u> </u>			*****									
OBVP Hardware	Α	D			1.446									
		Q			VAR									
														igsquare
Totals			60.504		30.030	30.343	21.033	6.012						
Active	1				30.030	30.343	21.033	6.012		<u> </u>	<u> </u>			

Exhibit P-5 Cost Analysis		Appropriation Procuremer Other Equip	nt, Marin	e Corps (11	Serial No: 09) / Enginee	r and	P-1 Line Ite POWE	m Nomencla R EQUIPME		Weapon Sy	stem Type:	Ma	ay 2009
Weapon System	ID		FY 08			FY 09			FY 10		F	Y10 OC	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
On-Board Vehicle Power/400 Amp Alternators (HMMWV)		17235	6000	2873									
On-Board Vehicle Power/HMMWW Vehicles		1955	15	130300									
On-Board Vehicle Power (HMMWV KITS)		6000	20	300000									
OBVP Integration/Kit Installation/Depot		13636	6000	2273									
Program Management Support		4566	1	4566000									
MEPDIS-R (Various Components)		8100	VAR	VAR	7681	VAR	VAR						
Power Equipment Assorted (Various Generators, 2KW, 3KW, 10KW 20KW, 30KW, 60KW, 100KW)					14573	VAR	VAR				18848	VAR	VAR
Integrated Logistics Support TOTAL ACTIVE RESERVE		8451 59943 59943			22254 22254						18848 18848		

Ex	xhibit P-5a, Budget Procureme	nt Histor	y and Planning					Date:	May 20)09
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Enginee	er and Other Equipment (6)	Weapon	System Type:		P-1 Line		enclature: WER EQUIF		<u> </u>	00
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issue Date
FY08										
On-Board Vehicle Power/400 Amp Alternators (HMMWV)	C.E. Niehoff & AMP Co., Evanston, IL	FFP	MCSC,Quantico, VA	Apr-08	Jun-08	6000	2873	Υ		
On-Board Vehicle Power/HMMWV Vehicles	AM General Corp, South Bend, IN	FFPO	TACOM, Warren, MI	May-09	Aug-09	15	130300	Υ		
On-Board Vehicle Power (HMMWV KITS)	OshKosh Truck Co. Oshkosh, WI	FFPO	MCSC,Quantico, VA	Jun-09	Feb-10	20	300000	Y		
OBVP Integration/Kit Installation/Depot	Albany Maintenance Center	VAR	LOGCOM, Albany, GA	Oct-08	Nov-08	6000	2273	Y		
MEPDIS-R (Various Components)	Lex Products Corp, Stamford, CT	VAR	MCSC,Quantico, VA	Aug-08	Jan-09	VAR	VAR	Υ		
FY09										
MEPDIS-R (Various Components)	Lex Products Corp, Stamford, CT	VAR	MCSC,Quantico, VA	VAR	VAR	VAR	VAR	Υ		
Power Equipment Assorted (Various Generators, 2KW, 3KW, 10KW 20KW, 30KW, 60KW, 100KW)	VAR	FFP	PM MEP, Ft Belvoir, VA	VAR	VAR	VAR	VAR	Y		
FY10 Power Equipment Assorted (Various Generators, 2KW, 3KW, 10KW 20KW, 30KW, 60KW, 100KW)	VAR	VAR	PM MEP, Ft Belvoir, VA	VAR	VAR	VAR	VAR	Y		

REMARKS:

ON-BOARD VEHICLE POWER/HMMWV VEHICLES 08 MC 15 0 15<		EXHIBI	T P-2	1, PF	RODUC	CTION	SCHE	DULE													Date:						400	200				
PRODUCTION RATE PRODUCTION RATE PROCURE MINISTRUCTOR PRODUCTION RATE PROCURE MINISTRUCTOR PROPERTY PROCURE PROCURE PROPERTY PROCURE PROPERTY PROCURE PROCURE PROCURE PROCURE PROCURE PROCURE PROCURE PROCURE															- ·											N	ay 20	009				
PRODUCTION RATE PROCUREMENT LEADTINES	1 1 1							vveapo	on Sy	/stem					P-1	Item N	Iomei	nciatui	re:													
Manufacturer's NAME / LOCATION MSR	Procurement, Marine Corps (1109) / Engineer and	Other Equipment (6)																				PC	OWE	R EC	UIPN	/ENT						
MSR									PRO	ODUCT	ION I	RATE					PR	OCUR	MEN	IT LE	MITGA	ES								-		
ONEDADO VERICLE POWERHAMANY VERTICLES ONEDADO VERTICLE POWERHAMANY VERTICLES ONEDADO	ITEM	Manufacturer's NAME / LC	OCATI	ON				MS	SR	EC	ON	М	AX	ALT		to Oct	ALT	After C	Oct 1	Initia		Mfg	Reo		-		TO	ΤΛΙ		Linit of	Moar	ouro.
ONEGRAND VEHICLE POWERHAMMON VEHICLES AM GENERAL South Bend, IN 2 2 4 1 3 4 E ORVEROAME VEHICLE POWERHAMMON (TS) ONE OFFICIAL SOUTH MILES ORVER INTEGRATION INSTALLATION DEPOT ALBANY MAINTENANCE CENTER, LOGCOM ALBANY GA 500		C E NIEHOEE & AMP CO	Fyar	neton	II			12	5	11	25	2	50					6												E CINCOL	IVICAS	suie
OR-BOARD VEHICLE POWER HAMMY KITS OSHKOSH TRUCK CO. OSHKOSH W 2 2 4 1 3 4 E				istori,						_		_																		F		
SOUND SOUN		,	-	SH W	ı																									F		
Fiscal Year 08	,					ΔΙ ΒΔΝΙ	′ GA																							Ē		
F	OBVF INTEGRATION INSTALLATION/DEFOT	ALBANT WAINTLINANCE	CLIVI	LIX, LC	JGCOW	ALDANI	GA	30	10	3(00	- 3	00							_										┢─		
TIEM							1					Fiscal	Year (18						_					Fis	cal Yea	r 09			Ь—		В
F															C	alendar	Year	08		_								Year	19			A
TIEM			1	c	0	Ь	В	0	N	Ь	Η.	Е	N4	^	_	J., J.,	1	1 1			NI I	_	-	Е	N/		1	1 1	<u> </u>	۸	c	L
TEM 9											A					IJ	IJ						A					U	IJ			A
ON-BOARD VEHICLE POWER/400AMP ALTERNATOR 08 MC 6000 0 6000 0 15 0 15 0 15 0 15 0 15 0	ITEM		Υ			L	L																									N C
ON-BOARD VEHICLE POWER (*MMWV KITS) O8 MC 20 0 20 0 20 0 20 0 20 0 20 0 20 0 2			08	MC	6000	0	6000							Α		125	125	125	125	125	125	125	125	125	125	250	250	250	250	250	250	3250
ON-BOARD VEHICLE POWER (HIMMWV KITS) 08 MC 20 0 20 0 20 0 20 0 20 0 20 0 20 0 2						0																										11
	ON-BOARD VEHICLE POWER (HMMWV KITS)		08	MC		0	20																					Α				20
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	Exh	nibit P-40, B	udget Item	Justificatio	n Sheet			Date:		May 2009		
Appropriation / Budge	et Activity/Serial N	lo:				P-1 Item Nor	nenclature:			-		
Procurement, Marine	e Corps (1109) / Er	ngineer and C	ther Equipme	ent / 06				Amphi	bious Support	Equipment		
Program Elements:				Code:	Other Relate	d Program Ele	ements:					
0206211M	A Divisions (Marine	e)		Α								
	Prior Years	,	FY 2008	FY 2009	FY 2010	FY 2010 OCO	FY 2010 TOTAL					
Proc Qty												
Gross Cost	67.1		17.3	13.7	39.9	0.0	39.9					
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	67.1		17.3	13.7	39.9	0.0	39.9					
Initial Spares	0.5		1.8	0.0	0.3	0.0	0.3					
Total Proc Cost	67.6		19.1	13.7	40.2	0.0	40.2					
Flyaway U/C												
Wpn Sys Proc U/C												
IMPROVED RIBBON B	BRIDGE	FY08	FY09	FY10	FY10 OCC	FY 10 TOTAL						
Active	Gross Cost	15.3	11.7	33.9	0.0	33.9						
Reserve	Gross Cost	2.0	2.0	6.0	0.0	6.0						
Total	Gross Cost	17.3	13.7	39.9	0.0	39.9						

Combat Rubber Reconnaissance Craft (CRRC) - Small, lightweight, inflatable rubber boat utilized as forward-deployed raid platform for small team insertion and extraction. In FY10, CRRC realigned to the Underwater Reconnaissance Capability (URC).

Family of Raid/Recon Equipment (FRRE) - Multiple specialized raid projects encompassing the close quarter battle ensemble used in various Marine units and parachuting equipment used for reconnaissance in support of landing force operations. Includes component sets and ancillary equipment which will provide integration to warfighting concepts of the 21st century. Program will enhance the means to systemize equipment and increase combat multipliers, survivability, durability and functionality over that of the current inventory items.

Joint Precision Air Drop System (JPADS) - Parachute delivery system consists of a decelerator (parachute) guided by an Autonomous Guidance Unit attached to a Container Delivery System that interfaces with cargo aircraft for autonomous delivery of airborne cargo from high altitudes and lateral separation to predetermined small drop zone. Capability provides increased air carrier survivability; ground accuracy; standoff delivery; and improved effectiveness and assessment feedback for airdrop missions. JPADS family consists of end items to include Mission Planner (laptop with airdrop mission planning software) and several variants based on gross rigged weight to include Ultra-Lightweight, Ultra-Lightweight 10Klbs.

Underwater Breathing Apparatus (UBA) - Basic life support system required to perform closed-circuit (no bubbles) diving operations. In FY10, UBA realigned to Underwater Reconnaissance Capability (URC).

Marine Assault Breacher Kit (MABK) - Primary tool kit for ground reconnaissance units to conduct forcible and dynamic entry used extensiviely by USMC ground reconnaissance units in both Iraq and Afganistan. Provides Marines with explosive and mechanical components and tools to breach and enter wide array of structures during cordon and search/targeted raids.

Underwater Reconnaissance Capability (URC) - Overarching Family of Systems which sustains/enhances capabilities of current and future combatant diving systems. Consists of related end items to include Combatant Diver Full Face Mask (CDFFM) which provides increased underwater safety for Marine Combatant Divers and integrated underwater voice communications; Tactical Hydrographic Survey Equipment provides electronic subsurface hydrographic charting of landing beach approach lanes, Combatant Diver Dry Suit, Maritime Operations Suit, Waterproof Bag System, and Expeditionary Hyperbaric Chamber System. In FY10, includes realigned CRRC and UBA capabilities; and Enhanced Underwater Breathing Apparatus, a mixed-gas mechanical UBA which enables MCD to perform prolonged combatant diving operations.

Improved Ribbon Bridge (IRB) - Roll-up line that provides funds to procure Bridge Erection Boats and associated trailers, Improved Ribbon Bridges, and Rafting Set Ribbon Bridge. These systems provide the Marine Corps with the capabilities required for Marine Expeditionary Forces to overcome wet gap obstacles too wide to be breached or too deep to be forded by combat vehicles. The Bridge Erection Boat supports bridging and amphibious operations. The Improved Ribbon Bridge is a floating wet gap bridge system capable of carrying a MLC 80 (tracked) or 100 (wheeled) ton vehicle in stream currents up to 10 feet per second (5.9 miles per hour) and consists of 5 ramp bays and 12 interior bays. The Rafting Set Ribbon Bridge consists of 2 ramp bays and 5 interior bays and provides a MLC 80/100 rafting capability to ferry vehicles and personnel across wet gaps.

Exhibit P-40a, Budge	t Item	Justifi	cation for A	ggregated l	tems			Date: May 2	2009
Appropriation / Budget Activity							P-1 Item Nor	menclature:	
Procurement, Marine Corps (1109) / E Procurement Items	nginee	r and O	ther Equipment Prior Years	nt / 06 FY 2008	FY 2009	EV 2010	FY 2010 OC	us Support Eq	uipment
1 rocurement items	Code	UOIVI	FIIOI TEAIS	F1 2006	F1 2009	F1 2010	F 1 2010 OC	<u> </u>	
Combat Rubber Reconnaissance Craft	Α	D	6.171	0.459	1.141	0.000	0.000		
		Q							
Underwater Breathing Apparatus	Α	D	6.427	1.155	0.377	0.000	0.000		
		Q	-						
Marine Assault Breacher Kit	Α	D	0.000	0.000	0.545	0.000	0.000		
		Q							
TOTAL			12.598	1.614	2.063	0.000	0.000		

Exhibit P-5 Cost Analysis		priation/ Budge rement, Marine				Item Nome		Weapon Sy	stem Type	Date:				
Exhibit 1 0 00st Analysis		eer and Other			Equipme	nt						May 2009		
Weapon System Cost Elements	ID CD	Prior Yrs TotalCost	TotalCost	FY 08	UnitCost	TotalCost	FY 09 Qty		TotalCost	FY 10		TotalCost	FY10 OC	
weapon system cost Elements	ID CD	\$000	\$000	Qty Each	\$	\$000	Each	UnitCost \$	\$000	Qty Each	UnitCost \$	\$000	Qty Each	UnitCost \$
FAMILY OF RAID/RECON EQUIPMENT Parachute Systems and Support		12298	6254	VAR	VAR	6343	VAR	VAR	3203	VAR	VAR			
JOINT PRECISION AIR DROP SYSTEM		0	6594	VAR	VAR	815	VAR	VAR	5583	VAR	VAR			
UNDERWATER RECON CAPABILITY Dive and Boat Systems and Support		1742	2793	VAR	VAR	4524	VAR	VAR	8468	VAR	VAR			
Improved Ribbon Bridge (IRB) (80T 100T)									16642	3	VAR			
IRB Expansion Bay Components									5980	VAR	VAR			
TOTAL ACTIVE RESERVE		14040 11934 2106	15641 13295 2346			11682 9925 1757			39876 33896 5980					

WBS Cost Elements: Contractor and Location Contract Method & Type FY07 Remberdier RR US, Inc.	Date of First Delivery	libious Suppo	ort Equip	Date	RFP Issue
WBS Cost Elements: Fiscal Years Contract of Method & Type Contract Method & Type FY07 Multi-Fuel Engine Bombardier RP US, Inc., GSA MARCORSYSCOM May-09	First Each	Unit Cost \$	Specs Avail?	Dayon	
Multi-Fuel Engine Bombardier RP US, Inc., GSA MARCORSYSCOM May-09	0.100			Avail	Date
	Oct-09 58	8 15,000	Yes	N/A	N/A

		P-21,	PRO	DUCT	ION SC	CHEDU	ILE													Dat	e:				Ma	ıy 20	09				
Appropriation Code/CC/BA/BSA Procurement, Marine Corps (110		Other Ed	quipm	ent / 06	i				n Sys					P-	-1 Iter			Α	mph				ort E	quip	men	t (65	1800)			
							PF	ROD	UCT	ION	RA ⁻	ΤE			Р	ROC	URE	ME	NT L	EAD	MIT	IES									
ITEM	Manufacturer's	NAME	/LO	CATIO	N		M	SR	EC	ON	M	AX		T P Oc	rior to t 1		_T Af Oct ´			Initia fg Pl			Reor Ifg F			ТО	TAL		ı	Unit Meas	
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Multi-Fuel Engine	Bombardier RP U	JS. Inc	Sturte	vant WI			6	60	8	30	1:	25					31			5		1			1	3	36			Е	
Bridge Floating IRB 80T 100T	General Dynamic						_	1		2		5					0			18							8			Е	
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ITEM			C	Y	_		<u> </u>	V	C	N	В	К	К	Y	N	-	G	Р	_	V	C	N	В	K	К	Y	N	┝		P	
Multi-Fuel Engine ACTIVE		FY07		514	0	514								t												Α					514
Multi-Fuel Engine RESERVE		FY07	MC	74	0	74																				Α		_	_		74
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ITEM		F Y	S V C	Q T Y	D E L	B A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	N A Y	J V U V N	D D	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	U U	A U G	S E P	
Multi-Fuel Engine ACTIVE		FY07		514	0	514	100	##	##	63	63	88																			0
Multi-Fuel Engine RESERVE		FY07	МС	74	0	74				37	37																	\vdash	\vdash		0
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	E	Exhibit P-40, Budget Item J	ustification S	heet			Date:		May 2009	
Appropriation / Budget Activity	/Serial No:				P-1 Item Nome	enclature:				
Procurement, Marine Corps (1	l 109) / Enginee	er and Other Equipment (6)						EOD SYSTEMS	3	
Program Elements:			Code:	Other Related	Program Eleme	nts:				
0206315M Force Se	rvice Support (Group	Α							
	Prior Years	FY 2008	FY 2009	FY 2010	FY 2010 OCO	FY 2010 TOTAL				
Proc Qty										
Gross Cost	3080.6	1768.4	352.4	93.3	47.7	141.0				
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc (P-1)	3080.6	1768.4	352.4	93.3	47.7	141.0				
Initial Spares	3.9									
Total Proc Cost	3084.6	1768.4	352.4	93.3	47.7	141.0				
Flyaway U/C										
Wpn Sys Proc U/C										

USMC Counter RCIED Electronic Warfare (USMC CREW) Systems: USMC CREW systems are vehicle mounted, modular programmable multi-band radio-frequency jammers designed to deny enemy use of selected portions of the radio frequency spectrum in the vicinity of the jammer to counter the Radio-Controlled IED threat. The systems protect convoy elements against the threat of Radio controlled improvised explosive devices (RCIEDs). CREW 2.0 systems (Chameleon and Hunter) consist of a Ground Electronic Countermeasure (G-ECM) system and a vehicle installation kit (VIK). CREW Increment 2.1 (Jan 2009) consists of the CREW Vehicle Receiver Jammer (CVRJ) which is designed to meet the additional capability requirements established in the SON dated 5 Aug 08.

ADVANCED MINEFIELD DETECTOR (AMD) will be employed by the Combat Engineers in the Combat Engineer Battalions, Engineer Support Battalions and the Marine Wing Support Squadrons to fulfill operational mine detection requirements. The system will detect mines in designated areas throughout the theater to expand breach lanes and to assist in countermine clearance efforts. AMD is a man-portable system capable of detecting both metallic and low metallic buried mines regardless of fuse types. Metal detectors will be used to detect caches. Demolition sets provide all of the tools required to build, prime and initiate explosive charges electrically, non-electrically and remote control. The minefield marking set is used to mark cleared lanes through a minefield or hazard area. These items included demolition sets, explosive initiating demolition sets, line charge kits and minefield marking sets. The Advanced Mine Detector uses ground penetrating radar and traditional metal detection to detect landmines.

ASSAULT BREACHER VEHICLE (ABV) is a tracked, armored combat engineer vehicle designed to breach minefields and complex obstacles and provide a deliberate and in-stride breaching capability. ABV consists of a rebuilt and upgraded M1A1 Tank chassis with the integration of Non-Developmental Items (NDI), which includes a Full-Width Mine Plow, a Dozer Blade, a Surface Mine Plow, a Rapid Ordnance Removal System, two Mk 155 Linear Demolition Charges, a lane marking system and a self-defense weapon system. The ABV will provide crew protection and vehicle survivability while having the speed and mobility to keep pace with the maneuver force. The M1A1 Tank Chassis will provide economic supportability of the system through its commonality with the tank fleet and armor protection for survivability.

M9 Armored Combat Earthmover (ACE) modernization: The M9 ACE is a force multiplier for the combat engineer, performing mobility, counter mobility and survivability missions. The M9 is a highly mobile, fully tracked, armored earthmover capable of supporting forces in both offensive and defensive operations, performing critical combat engineer tasks, such as preparing hull defilade fighting positions for guns and tanks and preparing protected positions for other critical battlefield systems to increase their survivability.

FAMILY OF EOD EQUIPMENT: The Explosive Ordnance Disposal (EOD) mission provides a means to neutralize the hazards associated with explosive ordnance that are beyond the normal capabilities of other specialties that present a threat to operations, installations, personnel and material. The Family of EOD Equipment accomplishes this mission by detecting, identifying, rendering safe, recovering, evacuating and disassembling, and/or disposing of unexploded ordnance with a variety of tools which include Modernized Demolition Initiator, Hook and Line Kit, Non-Invasive Filler Identification Tool, EOD Man Portable Robotics, Tele-Present Remote Aiming Platform, Self Contained Breathing Apparatus (SCBA), EOD Chemical Biological Nuclear Radiological Equipment (CBRNE), and Advanced Ordnance Locators.

Joint Assault Bridge (JAB) is an armored vehicle used for rapidly employing, short-gap, assault crossing system, capable of spanning natural and manmade obstacles up to 60 feet (18.29) while under fire for up to Military Load Class (MLC) 70-ton vehicles. The JAB consists of a rebuilt and upgraded M1A1 Tank chassis with existing MLC70 scissors bridge and a commercial launcher. The JAB will provide the MAGTF with the capability to conduct assault and tactical wet and dry gap crossings in all types of climate and terrain, including slopes, trenches and vertical steps. The M1A1 based launcher will provide the survivability, maintainability and maneuverability required to keep pace with the maneuver force.

Lightweight Mine Rollers - can be attached to wheeled vehicles to counter pressure initiated Improvised Explosive Devices threats. The rollers can be mounted to HMMWV, MTVR, LAV, and JERRV/Cougar vehicles to minimize damage to vehicles and, more importantly, prevent injury or loss of life to those Marine/Sailors/Soldiers in the vehicle crew compartment. Increased demand and use of rollers are decreasing current inventory levels at rapid rate.

Exhibit P-40, Budget Item Justification Sheet	Date: May 2009
Appropriation / Budget Activity/Serial No:	P-1 Item Nomenclature:
Procurement, Marine Corps (1109) / Engineer and Other Equipment (6	EOD SYSTEMS
The Route Clearance Family of Systems: Provides capabilities not found in the	·

The Route Clearance Family of Systems: Provides capabilities not found in the current Joint land force structure to defeat explosive hazards and protect Soldiers and equipment while conducting route and area clearance operations. The FoS for Route Clearance will enable Commanders to deliberately operate in explosive hazards environments by detecting and marking explosive hazards, enabling the Commanders to make timely and informed decisions to avoid the explosive hazards, or, if necessary, neutralize explosive hazards that impede their missions. Multiple detection and marking capabilities will detect a broader spectrum of explosive hazards and achieve higher overall effectiveness rates. Standoff and remote-controlled detection and marking capabilities will remove Joint forces from direct contact with explosive hazards and enhance force protection and the vehicles' system survivability. Operational speeds and rates will increase and better support the operational tempo (OPTEMPO) of the Current and Future Force.

Mine Resistant Ambush Protected (MRAP) Vehicles: MRAP vehicles increase the survivability and mobility of Marines and Soldiers operating in hazardous fire areas. The expanded use of Improvised Explosive Devices (IED) of various types and the continual use of rocket propelled grenades (RPGs) and small arms fire (SAF) in the area of operation requires a vehicle capable of surviving the IED/RPG/SAF threat. Category I, II and III vehicles are required to meet different mission profiles. Funding includes required MRAP GFE/subsystems.

Z Backscatter Van (ZBV Ruggedization Upgrade): Removes the ZBV scanning equipment from the current COTS configured chassis and mounts it onto a military trailer that is more appropriate for use in theater operations. The ZBV is a low-cost, extremely maneuverable "drive-by" screening system that allows one or two operators to conduct X-ray imaging of suspect vehicles and objects.

Family of EOD Equipment for Vehicle Intercoms (TOCNET): TOCNET is a robust and full featured digital intercommunications system. TOCNET can be found at a variety of USMC units, and recently was selected to be the intercommunication system for all DoD Mine Resistant Ambush Protected (MRAP) vehicles.

Exhibit P-40a, Budget Item Justification	n fo	r Aggr	egated Iter	ns		Date: May	2009				
Appropriation / Budget Activity				P-1 Item No							
Procurement, Marine Corps (1109) / Engineer and Suppo	rt Equ	iipment	(6)	Е	OD SYSTEI	MS					
Procurement Items	Code	UOM	Prior Year	FY 2008 (\$M)	FY 2009 (\$M)	FY 2010 (\$M)	FY 2010 OCO (\$M)	FY 2010 TOTAL(\$M)			
Family of Incident Response				0.007							
Secure 1000							2.460				
TOTAL				0.007	0.000	0.000	2.460	0.000			

Exhibit P-5 Cost Analysis		Appropriation/ Budget Activity/Serial No:						P-1 Line Item Nomenclature:			Weapon System Type:		Date:			
		Procurement, Ma	arine Corps (1109) / Engineer and Support Ed		Equipment (6)	EOD SYSTE		MS			May 2009					
Weapon System Cost		Prior Yrs		FY 08			FY 09			FY 10		FY 10 OCO				
	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000		UnitCost \$		
Counter RCIED Electronic Warfare (USMC CREW) Increment 2.1 - CREW Vehicle Receiver Jammer (CVRJ) Increment JCREW 3.3 Support Equipment Initial Spares Initial Support			149141 8931 16606 3057	2277 VAR VAR VAR	65499 VAR VAR VAR	166157 6353 33505 8022	2543 VAR VAR VAR	65339 VAR VAR VAR								
Program Support/Engineering Change Proposals (ECP)			5625			609			11181	VAR	VAR			1		
TOTAL			183360			214645			11181							
Advanced Mine Detector Mine Detecting Sets, landmine simulators, line charges, firing devices, mine clearing launchers, markings, program			5712	VAR	VAR	17838	VAR	VAR				3166	VAR	VAR		
Account Describes Vehicle		57240	20033	7	2861857	20010	6	3335000	18266	6	3044333			1		
Assault Breacher Vehicle Ancillary Equipment (Plows, Blades, Rapid Ordnance Removal System		37240	4905	VAR	VAR	4990	VAR	VAR	2548	VAR	VAR					
Armored Combat Earthmover (ACE) SIP 4 Marine Corps Modernization kit (includes System Improvement Package (SIP) 4 configuration changes to Steel Flanges, Power Pack Removal, Crew Cooling System One Inch Aluminum Bottom, Steel Apron and Blade, Integrated Vision System, Hydraulic System, Stowage Rack									19008	VAR	VAR					
EOD																
EOD Rapid Rescue Systems EOD Robots EOD Tool Kits MAZ Zengrange Remote Firing Devices RC-50/60 Support Modular Robotic Control Systems Chem, Biological, Nuclear Equip (CBRNE) Kits AN/PAS 22 Long Range Thermal Imagers AN/PVS-14 Defense Advance GPS Receivers (DAGRs)			6766 1932 5828 21815 11522 2218 1229 51310	VAR VAR VAR VAR 265 795 452	VAR VAR VAR VAR 43480 2790 2719	29927 3672 3788	VAR VAR VAR	VAR VAR VAR	3754 3 75 4	VAR	VAR	6024 6024	VAR	VAR		
Joint Assault Bridge Bridge Launcher Vehicle Integration Dozer Blade Program Support & Rebuild			5.510			4800 4000 1333 10133	3	1600000 1333333	9000 9000 1200 589 19789	6 6 6		3000 3000 400 1600 8000	2 2 2	1500000		
Lightweight Mine Rollers OCO (Multiple Mine Roller variants for HMMWV, MTVR, LAV, JERRV/Cougar Vehicles)												16398	VAR	VAR		
SUB TOTAL ACTIVE RESERVE		57240	265320			305003			74546			33588				

Exhibi	t P-5 Cost Analysis		Appropriation/ Budget Activity/Serial No: Procurement, Marine Corps (1109) / Engineer and Support Equipment (6)						P-1 Line Item Nomenclature: EOD SYSTEMS			Weapon S	ystem Type:				
	•				rine Corps (1109)	/ Engineer and	Support Ed		FY 09	EOD SYSTE	MS	FY 10			May 2009 FY 10 OCO		
Weapon System		Cost	ID	Prior Yrs		F1 U0			F1 09	ı	T. ()		I			1	
	Elements		CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	
Mine Resistant Ambu	sh Protected Vehicles																
Automotive Product Qu	alification Testing			51642	17927												
Category I Vehicles				1150663	213682	480	445171										
Category II Vehicles				274017	46200	81	570370										
Category III Vehicles				40550	0												
Initial Support				198958	617118												
Spiral Upgrades				1842	447000												
GFE				636044	93073												
				2353716	1435000												
Route Reconnaissand	ce and Clearance Family of S	Systems	5								18789	VAR	VAR	2969	VAR	VAR	
Lightweight Mine Roller	(Cougar, Buffalo, Husky) with rs, Vehicle Mounted Mine Dete ating Radar, Lightweight Rout	ectors,															
Spider Smart Mine Sy	stems													8680	VAR	VAR	
Stand Off Suicide Bor	mber							35000	76	460526							
Z-Backscatter Rugged	dized Trailer				68085	58	1173879	12411	8	1551375							
	SUB TOTA	ΔΙ P5/1															
	SUB TOTA			57240				305003			74546			33588			
		ACTIVE		2353716 2410956	1503085 1768405			47411 352414			18789 93335			11649 45237			
		ESERVE		2410936	1700405			352414			33335			45237			

Exhibit P-5a, Budget Procurement History and Planning)9
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Eng	ineer and Other Equipment (6)	Weapon Sys	stem Type:	P-1 Line It	May 2009					
WBS Cost Elements:	Contractor and Location	Contract Method &	Location of PCO	Award	Date of First	QTY	EOD SYSTEM Unit Cost \$	Specs	Date Revsn	RFP Issue
Fiscal Years	Contractor and Location	Type	Location of 1 CO	Date	Delivery	Each	Offit Cost \$	Avail?	Avail	Date
ABV										ı
FY08	Anniston Army Depot, AL	MIPR	TACOM, Warren, MI	Feb-08	Jan-09	7	2861857	Yes	No	N/A
FY09	Anniston Army Depot, AL	MIPR	TACOM, Warren, MI	Feb-09	Jan-10	6	3335000	Yes	No	N/A
FY10	Anniston Army Depot, AL	MIPR	TACOM, Warren, MI	Nov-09	Nov-10	6	3044333	Yes	No	N/A
Counter RCIED Electronic Warfare (USMC CREW)										1
FY08 CREW Vehicle Receiver Jammer (CVRJ)	ITT, 1000 Oaks, CA	FFP	NAVSEA, Washington D.C	Mar-09	Jun-09	2277	65499	N/A	N/A	N/A
FY09 CREW Vehicle Receiver Jammer (CVRJ)	ITT, 1000 Oaks, CA	FFP	NAVSEA, Washington D.C	Mar-09	Aug-09	2543	65339	N/A	N/A	N/A
EOD FY08										1
AN/PAS 22 Long Range Thermal Imagers	Kollsman Inc., Merrimack, NH	FFP	MCSC, Quantico, VA	Sep-08	Oct-08	265	43480	Yes	N/A	N/A
AN/PVS-14	ITT Roanoke, VA	FFP	SFAE Ft Belvoir, VA	Sep-08	Apr-09	795	2790	Yes	N/A	N/A
Defense Advance GPS Receivers (DAGRs)	Rockwell Collins, Cedar Rapids, IO	FFP	Space Missile Center El Segundo, CA	Mar-09	Sep-09	452	2719	Yes	N/A	N/A
Joint Assault Bridge			Li Segundo, OA							ı
FY09 - Bridge Launcher	BAE Land Systems, UK	FFP	MCSC, Quantico, VA	Jun-09	Mar-10	3	1600000	Yes	N/A	N/A
FY09- Integration	Anniston Army Depot, AL	MIPR	TACOM, Warren MI	Jun-09	Mar-10	3		Yes	N/A	N/A
FY10 - Bridge Launcher	BAE Land Systems, UK	FFP	MCSC, Quantico, VA	Dec-09	Aug-10	8	1500000	Yes	N/A	N/A
FY10 - Integration	Anniston Army Depot, AL	MIPR	TACOM, Warren MI	Dec-09	Aug-10	8	1500000	Yes	N/A	N/A
FY10 - Dozer Blade	Pearson LTD, UK	FFP	MCSC, Quantico, VA	Dec-09	Aug-10	8	200000	Yes	N/A	N/A
Mine Resistant Ambush Protected Vehicles										1
FY08 Category I Vehicles- Competitive FY08 Category II Vehicles- Competitive	Force Protection Inc, Ladson, SC Force Protection Inc, Ladson, SC	FFP/IDIQ FFP/IDIQ	MCSC, Quantico, VA MCSC, Quantico, VA	Oct-07 Oct-07	Mar-08 Apr-08	480 81		Yes Yes	N/A N/A	N/A N/A
Stand Off Suicide Bomber	TBD		TBD	TBD	TBD	76	460526	Yes	N/A	N/A
Z-Backscatter Ruggedized Trailer FY08										i
FY08	AS&E, Ballerica, MA	FFP	MCSC, Quantico, VA	Mar-09	Apr-09	58		Yes	N/A	N/A
FY09	AS&E, Ballerica, MA	FFP	MCSC, Quantico, VA	Dec-08	Nov-09	8	1551375	Yes	N/A	N/A
Remarks:										

	E	EXHI	BIT P-	21, PR	ODUCTIO	N SCI	HEDU	JLE											Date	e:					May	2009				
Appropriation Code/CC/BA/BSA/Item	Control No).				Weapo	on Sy	stem					P-1	Item	Non	nencl	ature	e:							way .	2003				
Procurement, Marine Corps (1109) / E	ngineer a	nd Su	ipport E	quipme	nt (6)																E	DD S	YS1	TEMS	;					
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CVRJ	FY08		2277	0	2277	- '-	L *	C	IN	د	ıx.	Α.	,	IN	_	G	r		٧	Ü	14	ט	A	К	1	445	1000		F	0
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ABV	FY09			0	6																	Α								6
ABV	FY09		9	0	9																	Α								9
JAB Bridge Launcher	FY09		3	0	3															Α									3	0
JAB Integration	FY09	МС	3	0	3																Α								3	0
AN/PAS-22 Thermal Imager	FY08			0	265												Α	22	22	22	22	22	22	22	22	22	22	22	23	0
AN/PVS-14	FY08	MC	795	0	795												Α							397	398					0
Defense Advance GPS Receiver	FY08	MC	452	0	452																		Α						38	414
Stand Off Suicide Bomber	FY09	MC	76	0	76																									76
ZBV Ruggedized Trailer	FY08	MC	58	0	58																		Α	3	5	8	10	10	10	12
ZBV Ruggedized Trailer	FY09	МС	8	0	8															Α										8
		•						F	isca	al Ye	ar 1	10											Fis	scal `	Year 1	11				В
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CVRJ	FY09	Ν	2543	1168	1375	1000	375																							0
ABV	FY08		10	3	7	1	1	1	1	1	1	1																		0
ABV	FY09			0	6				2																					0
ABV	FY09		9	0	9					1	1	1	1	1	1	1	1	1												0
ABV	FY10			0	6		Α											2	2	2										0
ABV	FY10	_	16	0	16		Α														2	2	2	2	2	2	2	1	1	0
JAB Bridge Launcher	FY10			0	8			Α								3	3	2												0
JAB Integration	FY10			0	8		ļ	Α				<u> </u>				3	3	2							ļ					0
JAB Dozer Blade	FY10	_		0	8			Α		 		<u> </u>		<u> </u>		3	3	2												0
	FY08		452	38	414	38	38	38	38	38	38	38	38	38	38	34		Щ							ļ	1	<u> </u>	ļ		0
Defense Advance GPS Receiver				16	12	8	4	i	Ī	1 1		1	1	1	I	1	1					1 1			1	1	1	1	l	0
Defense Advance GPS Receiver ZBV Ruggedized Trailer ZBV Ruggedized Trailer	FY08 FY09	_	58 8	46 0	8	· ·	5	3		-		1	-	+		-	_	_		_	_	\vdash				_	+	+		0

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Appropriation Code/CC/BA/BSA/Item Cor Procurement, Marine Corps (1109) / Engi		Other I	Eauipr	ment (6)		Wea	apon	Syst	em				P-1 I	tem N	lome	enclat	ure:		ΕO	D S	YST	ΈM	S					
					,		F	PROE	DUC	TION	RA1	ГЕ		PR	OCU	REM	1ENT	LE/	\DTI										
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FY07 Category II JERRV- Sole Source	FPII, Lad	son, S	SC								5	50						╅	3		4		t		4			E	
FY07 Category III Buffalo- Sole Source	FPII, Lad						1					7						▐	4		4				4		1	Е	
MRAP Vehicles	FPII, Lad	Ladson, SC S, Ontario Canada							3	90						1	3		4		ı		4		Ì	Е			
MRAP Vehicles		S, Ontario Canada kosh, Oshkosh, WI							2	60						ı	6		4		l		4		Ì	Е			
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MRAP Vehicles		North Charleston, SC Systems, Santa Clara, CA			1					51						T	3	1	4		Ī		4		Ī	Е			
MRAP Vehicles		North Charleston, SC Systems, Santa Clara, CA Warrenville, IL			1					80						T	3	1	4		Ī		4		Ī	Е			
MRAP Vehicles		, Warrenville, IL							3	70						ı	3		4		l		4		Ì	Е			
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		nor Holdings, Sealy, TX						F	iscal	Year	08					▐				Fis	cal Y	ear/	09				В		
I		nor Holdings, Sealy, 1X									Ca	lenda	r Year	08							Cale	enda	ır Ye	ar 09)		A L		
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FY08 Category I Vehicles- Competitive		08	МС	480	0	480	Α					25	189	120	126	20													0
FY08 Category II Vehicles- Competitive		08	МС	81	0	81	Α						40	41															0
										F	iscal	Year	10			•		T	-		•	Fis	cal Y	ear/	11				В
I						-							Ca	lenda	r Year	10							Cale	enda	ır Ye	ar 11			A L
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	E	Exhibit P-40, Budget	Item Justi	fication She	et			Date:		May 2009	
Appropriation / Budge	•	o: ngineer and Other Equip	ment (6)			P-1 Item Nor	menclature:	PHYSICA	J SECURITY	/ EQUIPMENT	
Program Elements: 0206315M Force Ser			Code:	Other Relate	d Program El	ements:		11110101	LE GEOOTHT	EQUI MENT	
	Prior Years	FY 2008	FY 2009	FY 2010	FY 2010 OCO	FY 2010 TOTAL					
Proc Qty											
Gross Cost	82.5	221.4	181.6	12.2	19.7	31.9					
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc (P-1)	82.5	221.4	181.6	12.2	19.7	31.9					
Initial Spares											
Total Proc Cost	82.5	221.4	181.6	12.2	19.7	31.9					
Flyaway U/C											
Wpn Sys Proc U/C											

PHYSICAL SECURITY - Physical security systems are used at base flight lines and Arms, Ammunition and Explosive (AA&E) sites), in expeditionary environments, Other Critical Assets (OCA), Mission Essential Vulnerable Areas, support the Marine Corps Critical Infrastructure Protection (CIP) Program.and include capital plant equipment specifically designed for physical security in military construction (MILCON) projects. This budget line provides funding to procure investment items, devices and systems necessary for Unitedm States Marine Corps installations and facility infrastructure to comply with Congressional, White House Military Office, Department of Defense, Department of Navy, Marine Corps Physical Security and Antiterrorism Directives pertaining to security equipment and electronic security systems (ESS) as technological solutions to manpower intensive security requirements; and to provide a systematic, uniform capability throughout Marine Corps installations to deter, delay, and defeat espionage, sabotage, damage, theft, and terrorist acts against Marine Corps personnel, resources, installations and facilities. These systems upgrade and replace antiquated systems that are costly to maintain and upgrade security in neglected areas. The Marine Corps Electronic Security System (MCESS) Program provides Intrusion Detection, Access Control to include automated entry control systems, Mass Notification, Closed-Circuit Television (CCTV) and other surveillance equipment support by Visual Assessment Capabilities with digital recording. Mass Notification Systems provide warning capability to personnel in event of emergencies or changes in Force Protection Conditions. These systems increase efficiency/effectiveness of available security manpor and improve safety and security at access points. The systems reduce vulnerabilities and maintain mission readiness and enhance mission capabilities in support of Flight Line Security. Support to the War Fighter with technology and equipment; increases assessment capability outsi

GROUND-BASED OPERATIONAL SURVEILLANCE SYSTEM (GBOSS)—This program provides persistent (24/7) tracking of objects of interest through the use of a unique, 360-degree, high resolution, day/night surveillance capability for enhanced target recognition and situational awareness, which enables timely and appropriate response options (direct air attack, indirect fire, and ground patrol/attack). Each system can operate independently and consists of five main components: elevated platform, multi-spectral sensor suite, radar in sensor systems suite, as well as a ground control system (GCS) and a remote ground station (RGS). The elevated platform is a 106-foot tower. The optical sensor consists of an Electro-Optic color daytime camera, an Infrared black and white day or night camera, spotter scope, a laser range finder (LRF) and a laser pointer (LP). The radar sensor systems are modular and composed of tailorable sensor groups using multiple ground-sensing technologies (doppler, thermal, seismic, acoustic, audio) consisting of multimode sensors for detection, location and classification to perform mission tasks such as perimeter defense, surveillance and situational awareness. The Remote Ground Station allows the user to operate from a significant distance away from the system.

Exhibit P-5	A	Approp	riation/ Budget Act	tivity/Serial No:			P-1 Line It	em Nomencla	ature:		Weapon Sys	tem Type:	Date:		
Cost Analysis	F	Procure	ement, Marine Cor	ps (1109) / Engineer a	and Other Equ	uipment (6)	PHYSICAL	SECURITY	EQUIPMEN [®]	Т				May 200	9
Weapon System	Cost		Prior Yrs		FY 08			FY 09			FY 10			FY 10 OC	0
Elements	COSI	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	TotalCost \$000
INSTALLATIONS PHYSICAL SECURITY		Α	82500	10542	VAR	VAR	11461	VAR	VAR	5403	VAR	VAR			
COLLATERAL EQUIPMENT PHYSICAL SECURITY		Α		6962	VAR	VAR	31617	VAR	VAR	6766	VAR	VAR			
Cerberus Long Range Systems				203857	VAR	VAR	23360	VAR	VAR						
Cerberus Man Pack Systems													5000	VAR	VAR
Training FSR Support							2984	VAR	VAR				5000 7000		
OPAL Training FSR Support													2000 720	VAR VAR	
G-BOSS							112200	VAR	VAR						
A	TOTAL CTIVE SERVE			221361			181622 181622			12169 12169			19720 19720		

	Exhibit P-	40, Budget Item	Justificatio	on Sheet			Date:	May 2	:009	
	get Activity/Serial No: e Corps (1109) Engine	er and Other Equipr	ment (6)		P-1 Item Nom		ARRISON MOBILE I	ENGINEER EQL	JIPMENT	
Program Elements: 0206496M Ba	se Operations, Forces (Marine Corps)	Code: A	Other Relat	ed Program Ele	ements:				
	Prior Years	FY 2008	FY 2009	FY 2010	FY2010 OCO	FY2010 TOTAL				
Proc Qty										
Gross Cost	66.1	12.2	11.8	11.8	0.0	11.8				
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc (P-1)	66.1	12.2	11.8	11.8	0.0	11.8				
Initial Spares										
Total Proc Cost	66.1	12.2	11.8	11.8	0.0	11.8				
Flyaway U/C										
Wpn Sys Proc U/C										

Command Support Equipment - Funds in this line provide for the procurement/replacement of Class 3 (non-industrial) and Class 4 (industrial) equipment to support the operation and mission of United States Marine Corps ground bases, air stations and districts.

Garrison Mobile Engineer Equipment (GMEE)- Funds in this line provide for the procurement of centrally managed GMEE for United States Marine Corps Bases and Stations. The replacement has been developed on as-required basis because most commercial engineer construction equipment exceeds life expectancy. The procurement source is Defense Supply Center Philadelphia (DSCP).

Material Handling Equipment (MHE) (Bases and Stations) -Funds in this line provide for the replacement of centrally managed forklifts, warehouse cranes, and platform trucks. The replacement program has been developed on an as-required basis because most commercial Material Handling Equipment exceeds life expectancies developed and promulgated by Department of Defense (DoD) directives.

Warehouse Modernization - Funds in this line provide for more efficient use of limited warehouse space. This program enables procurement of equipment essential to the efficiency and economy of storage/packaging operations, maximizes and improves the utilization of manpower, cubic storage space, and provides timely support for deployment actions.

Exhibit P-40a, Budget Item Jus	tifica	tion fo	r Aggregate	d Items			Date:	May 2009				
Appropriation / Budget Activity Procurement, Marine Corps (1109) Engineer and Other Equipmer	nt (6)				P-1 Item No	omenclature		RISON MO	BILE ENGIN	NEER EQUIF	PMENT	
Procurement Items	Code	UOM	Prior Years	FY 2008	FY 2009	FY 2010	FY2010 OCO					
COMMAND SUPPORT EQUIPMENT	Α	D Q	3.269	0.682 VAR	0.718 VAR	0.692 VAR	0.000					
Material Handling Equipment (MHE) BASES AND STATIONS	Α	D Q	17.811	3.860 VAR	4.089 VAR	4.064 VAR	0.000					
WAREHOUSE MODERNIZATION (FY10 AND BEYOND MOVED TO BLI 645600)	Α	D Q	7.225	1.578 VAR	1.692 VAR	1.562 VAR	0.000					
Totals			28.305	6.120	6.499	6.318	0.000					
Active Reserve			28.305 0.000	6.120 0.000	6.499 0.000	6.318 0.000	0.000					

Exhibit P-5 Cost Analysis	Procui	priation/ Budg rement, Marine Equipment (6)	e Corps (110	9) Engine	er and	P-1 Line Ite GARRISON EQUIPMEN	I MOBILE E IT		Weapon S		Date:		2009	
Weapon System	ID CD	Prior Yrs	TotalCost	FY 08	LinitCost.	TotalCost	FY 09	LinitCost	TotalCost	FY 10	UnitCost	F TotalCost	Y2010 OC	
Cost Elements	ID CD	\$000	\$000	Qty Each	\$	\$000	Qty Each	\$	\$000	Qty Each	\$	\$000	Qty Each	UnitCost \$
Weapon System Cost Elements GARRISON MOBILE ENGINEERING EQUIPMENT Low density procurements of multiple configurations o light, medium and heavy duty Garrison Mobile Engineering Equipment (mowers, ditching machines, sweepers, tractors, bulldozers, cranes, etc) for all USMC Base and Stations.	A A	TotalCost	TotalCost \$000	Qty Each	VAR		Qty Each	VAR	TotalCost \$000	VAR	UnitCost \$ VAR	TotalCost	Qty Each	UnitCost \$
TOTAL ACTIVE RESERVE			6045 6045			5279 5279			5507 5507					

Е	xhibit P-40, B	Budget Iten	n Justificatio	n Sheet		Date:		M	ay 2009		
Appropriation / Budg Procurement, Marine	et Activity/Seria Corps (1109) /	l No: Engineer ar		P-1 Item No	menclature:	FAMILY C	F MATERIA	L HANDLING	EQUIPMEN ⁻	Γ	
Program Elements:		Code: A	Other Relate	d Program E	lements:						
	Prior Years	FY 2008	FY 2009	FY 2010	FY 2010 OCO	FY 2010 TOTAL					
Proc Qty											
Gross Cost	140.1	42.6	90.3	41.4	56.9	98.3					
Less PY Adv Proc		0.0									
Plus CY Adv Proc											
Net Proc (P-1)	140.1	42.6	90.3	41.4	56.9	98.3					
Initial Spares											
Total Proc Cost	140.1	42.6	90.3	41.4	56.9	98.3					
Flyaway U/C											
Wpn Sys Proc U/C							•				

FAMILY OF MATERIAL HANDLING EQUIPMENT

The Material Handling Equipment (MHE) line is a roll-up line that funds for the replacement and service life extension of Material Handling Equipment which includes forklifts, cranes, and container handlers. The replacement/service life extension program has been developed on an as required basis since history has proven that many items of MHE have been maintained beyond the life expectancies developed and promulgated by Department of Defense (DoD) directives. This roll-up line includes funding for the Extended Boom Forklift; Light Rough Terrain Forklift, Tractor, Rubber Tired, Articulated Steering, Multi-Purpose (TRAM) with buckets and fork attachments, Kalmar Rough Terrain Container Handler, All Terrain Crane (MAC-50), and the Light Capability Rough Terrain Crane (7.5 ton).

		FY2008	FY2009	FY2010	FY2010 OCO Y2	020 Total
Active	Gross Cost	42.6	82.1	34.1	56.9	91.0
Reserve	Gross Cost	0.0	6.2	7.3	0.0	7.3
Total	Gross Cost	42.6	88.3	41.4	56.9	98.3

Exhibit P-40a, Budget Item Justification fo	r Agg	gregate	ed Items		Date:	May 2009						
Appropriation / Budget Activity				P-1 Item Non	nenclature:							
Procurement, Marine Corps (1109) / Engineer and Other E								ATERIAL HANDLII	NG EQUIPME	ENT	_	
Procurement Items	Code	UOM	Prior Years	FY 2008	FY 2009	FY 2010	OCO	FY 2010 TOTAL				
	-											
Engineering Equipment Trailer							1.893	1.893				
							41	41				
Forks and Buckets	Α	D	5.236	2.091								
		Q	VAR	VAR								
Light Rough Terrain Forklift							4.518	4.518				
							43	43				
Skid Loader Tractor, Wheeled							3.936	3.936				
							49	49				
Program Management Support	Α	D	5.272	3.975	1.949		2.204	2.204				
		Q	VAR	VAR	VAR		VAR	0.000				
Totals		İ	10.508	6.066	1.949	0.000	12.551	12.551				
- Potalo				3.555		3.333		12.551				
	1	L	l	l	l	l	i			1	1	1

Exhibit P-5 Cost Analysis	Procu	priation/ Bud rement, Mar ment (6)		109) / En			P-1 Line Ite FAMILY OF HANDLING	MATERIA	L		stem Type:	Date:	May 2009	
Weapon System		Prior Yrs		FY 08			FY 09			FY 10			FY 10 OCC)
Cost Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	Unit Cost \$
Family of Material Handling Equipment														
All Terrain Crane (50 Ton)		52148	21502	29	741438	26692	36	741438	7414	10	741438	5190	7	741438
Engineering Equipment Armoring						20899	VAR	VAR						
Extended Boom Forklift												9206	68	135386
Rough Terrain Container Handler (RTCH)		18517				11114	15	740920	20005	27	740920	10373	14	740920
Tractor Multipurpose (TRAM)		60138	14986	82	182756	29606	162	182756	12976	71	182756	19555	107	182756
Truck Forklift Light (LRTF)		9274							1035	6	172500			
R	TOTAL ACTIVE RESERVE	140077 140077	36488 36488			88311 82160 6151			41430 34124 7306			44324 44324		

	Exhibit P-5a, Budget Procur	ement His	tory and Planning					Date:	May 200	9
Appropriation / Budget Activity/Serial N Procurement, Marine Corps (1109	o:) / Engineer and Other Equipment (6)	Weapon	System Type:				enclature: ATERIAL HAI		-	
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method & Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issue Date
All Terrain Crane										
FY08	Terex, Westport, Ct	FFP	MCSC Quantico, VA	Nov-07	Jul-08	29	741438	Yes	No	N/A
FY09	Terex, Westport, Ct	FFP	MCSC Quantico, VA	Jan-09	Nov-09	33		Yes	No	N/A
FY09	Terex, Westport, Ct	FFP	MCSC Quantico, VA	Jan-09	May-10	3		Yes	No	N/A
FY10	Terex, Westport, Ct	FFP	MCSC Quantico, VA	Jan-10		17	741438	Yes	No	N/A
Extended Boom Forklift										
FY10	TBD	TBD	TBD	TBD	TBD	68	135386	Yes	No	N/A
Rough Terrain Cont Handler										
FY09	Kalmar, Cibolo, TX	MIPR	TACOM, Warren, MI	Aug-09	Jun-10	15	740920	Yes	No	N/A
FY10	Kalmar, Cibolo, TX	MIPR	TACOM, Warren, MI	Jan-10	Nov-10	41	740920	Yes	No	N/A
Tractor Multi-Purpose (TRAM)										
FY08	John Deere, Moline, IL	FFP	MCSC Quantico, VA	Oct-07	Jul-09	82	182756	Yes	No	N/A
FY09	John Deere, Moline, IL	FFP	MCSC Quantico, VA	Jan-09	Oct-09	141	182756	Yes	No	N/A
FY09	John Deere, Moline, IL	FFP	MCSC Quantico, VA	Jan-09	Oct-09	21	182756	Yes	No	N/A
FY10	John Deere, Moline, IL	FFP	MCSC Quantico, VA	Jan-10	Jun-10	178	182756	Yes	No	N/A
Truck Forklift Light LRTF										l
FY10	TBD	TBD	TBD	TBD	TBD	6	172500	Yes	No	N/A
REMARKS:		l	ı	l						

	EXHIBIT	P-21,	PRO	DUC	TIO	N SC	HE	DUL	.E											Date	e :				Ma	ay 20	009				
Appropriation Code/CC/BA/BSA/Item Co	ontrol No.						Weapon System P-1 Item Nomenclature					ure:	· · · · · · · · · · · · · · · · · · ·																		
Procurement, Marine Corps (1109) / End		ner Equ	iipme	nt (6)										OF MATERIAL HANDLING EQUIPMENT																	
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													ΑL	T Pri	or to	Αl	T Af	ter		Initia		Re	eord	er					Unit	of	
ITEM	Manufacturer'	s NAMI	E / LO	CATIC	ON		MS	SR	EC	ON	M	ΑX		Oct	1		Oct 1	1	М	fg Pl	т	M	fg Pl	LT		TO	TAL	ļ		sure	
															•					. 9			9						H		
ALL TERRAIN CRANE	Terex, Westpo	ort CT					_	1		1	1	2					2			8						-	10		E		
EXTENDED BOOM FORKLIFT	TBD	Jit, O1					TE		TE			3D								-							-		一		
ROUGH TERRAIN CONTAINER HANDLER	Kalmar, Cibole	o TY					1	_	3		_	3 3					11			10							21		_		
TRAM	John Deere, N							1	2	-		.0					1			21							22		E		
TRUCK, FORKLIFT	TBD	nonne, i	_					3D		.5 3D		.u 3D					-			21					_		:2		₽		
TRUCK, FURKLIFT	IRD						16	30	16	30	16	3D													_				┢		
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		Y	V	T Y	E L	A L	C T	0 V	E C	A N	E B	A R	P R	A Y	U N	U L	U G	E P	C T	0 V	E C	A N	F E B	A R	P R	A Y	U N	U L	U G	E P	E
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ALL TERRAIN CRANE		FY08	MC	29	0	29		Α								4	4	4	4	4	4	4	1				Ш	—	ሥ	Ш	0
ALL TERRAIN CRANE Reserve		FY09	MC	33	0	33																Α					Ш	—	ሥ	Ш	33
ALL TERRAIN CRANE		FY09	MC	3	0	3															_	Α			_	<u> </u>	Щ	—	H	\vdash	3
ROUGH TERRAIN CONTAINER HANDLER		FY09	MC	15	0	15	-																			<u> </u>	Ш		Α		15
TRAM		FY08	MC	82	0	82	Α																		_	-	Н	25	25	25	7
TRAM Page 19		FY09	MC	141	0	141																A					ш	┢	ሥ	Ш	14
TRAM Reserve		FY09	MC	21	0	21	-	-		-		-	-						-			Α				-	Ш	┢	ሥ	igwdapsilon	21
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ITEM		Υ	C	T Y	E L	A L	T	V	C	A N	В	A R	R	A Y	U N	L	G	P	T	0 V	C	A N	В	A R	P R	A Y	U N	U L	G	E P	E
ITEM		E)/00																							_		Щ	▙	igspace	Ш	_
ALL TERRAIN CRANE		FY09	MC	33	0	33		4	4	4	4	4	4		3	3											Ш	┢	ሥ	Ш	0
ALL TERRAIN CRANE Reserve ALL TERRAIN CRANE		FY09 FY10	MC	3 17	0	3 17	\vdash	\vdash		Α			_	1	1	1				4	4	4	4	1	_	\vdash	$\vdash\vdash$	┢	₩	┢─┤	0
ROUGH TERRAIN CONTAINER HAND	IED		MC	17	0	17	H	H		A			-		3	3	3	3	3	4	4	4	4	H		1	Н	\vdash	₩	${f H}$	0
ROUGH TERRAIN CONTAINER HAND		FY109	MC	41	0	41	Н	H		Α			┢		J	3	٦	J	٦	5	5	5	5	5	5	5	3	3	\vdash	H	0
TRAM		FY08	MC	82	75	7	7	H		Ĥ		H	-				-			J	5	3	J	٦	۲	٦	٦	۲	₩	$\vdash \vdash$	0
TRAM		FY09	MC	141	0	141	25	25	25	25	25	16														1	Н	一	╁	$\vdash \vdash$	0
RAM Reserve		FY09	MC	21	0	21	20	20	20	20	20	9	12				-					\vdash			 	H	Н	一	₩	$\vdash \vdash$	0
TRAM			MC	138	0	138				Α		J	12		25	25	25	25	25	13							Н	一	怈	H	0
TRAM Reserve		FY10	_	40	0	40				Â					20	20	20	20	20	12	25	3					H	一	Н	H	0
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	Exhibit P-	40, Budget Item	Justificatio	n Sheet		Da	ate:	May 200	09				
	get Activity/Serial No: e Corps (1109) / Engine	eer and Other Equi	oment (6)		P-1 Item Nomenclature: FIRST DESTINATION TRANSPORTATION								
		Code:	Other Relate	ed Program Ele	ements:								
	Prior Years	FY 2008	FY 2009	FY 2010	FY2010 OCO	FY2010 TOTAL							
Proc Qty													
Gross Cost	59.5	8.3	5.9	5.3	0.0	5.3							
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	59.5	8.3	5.9	5.3	0.0	5.3							
Initial Spares													
Total Proc Cost	59.5	8.3	5.9	5.3	0.0	5.3							
Flyaway U/C													
Wpn Sys Proc U/C													

This program provides logistics support for planned quantities of materials and end items procured under the PMC appropriation to be shipped from manufacturers and/or suppliers to the Marine Corps users or facilities. All transportation included in this program is provided by commercial or industrially funded DoD transportation services.

Exhibit P-5 Cost Analysis		priation/ Budg curement, Ma					Item Nomer			Weapon Sy	stem Type:	Date: May 2009			
	Prior Yrs FY 08					FY 09				FY 10		FY 10 OCO			
Weapon System Cost Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	
First Destination Transportation		59531	8305	VAR	VAR		VAR	VAR		VAR	VAR				
TOTA ACTIV RESERV	E	59531 59531	8305 8305			5850 5850			5301 5301			0			

	Exhib	oit P-40, Budget Iter	n Justifica	tion Sheet		Date: May 2009								
Appropriation / Budget Procurer	P-1 Item Nomenclature: FIELD MEDICAL EQUIPMENT													
Program Elements: Code: Other Rela 0206315M Force Service Support Group A				Other Related	ed Program Elements:									
	Prior Years	FY 2008	FY 2009	FY 2010	FY2010 OCO	FY2010 Total								
Proc Qty														
Gross Cost	105.4	28.2	29.0	6.8	0.0	6.8								
Less PY Adv Proc														
Plus CY Adv Proc														
Net Proc (P-1)	105.4	28.2	29.0	6.8	0.0	6.8								
Initial Spares	0.8	0.3	0.5	0.5		0.5								
Total Proc Cost	106.3	28.5	29.5	7.3	0.0	7.3								
Flyaway U/C														
Wpn Sys Proc U/C														

Family of Field Medical Equipment (FFME) is comprised of:

The Enroute Care System (ERCS) provides equipment and supplies for the care of two critically injured/ill, but stabilized, casualties in theater operations for up to a hour medical evacuation (MEDEVAC) flight. The ERCS is a modular system that includes medical equipment, medical treatment protocols, and consumable supplies.

The Medical X-Ray equipment program provides radiological capability to surgical trauma platoons to diagnose injuries and medical abnormalities. AMAL-627 contains equipment and consumables to support one x-ray machine and develop x-rays. The x-ray unit is a compact, mobile and lightweight system that enables all imaging functions to be performed at the point of patient care. The unit is comprised of a low capacity x-ray unit and a digital computed radiographic (CR) reader, which scans the x-ray plates and displays the images on a laptop computer. The unit can be broken down into components for transportation and storage. It is operable and maintainable under all conditions of altitude, climate, and terrain.

The Field Dental System provides dental services to the Marine Expeditionary Force (MEF). In an operational environment, the Dental Battalion's primary mission is to provide dental health maintenance with a focus on emergency care. 662 ADALs contain the equipment and supplies required by dentists and their technicians to perform dental procedures on Marines in an expeditionary environment. It can be broken down into component sets or scaled down to fit the size and mission of the deploying unit. Primarily designed for stand alone dental treatment, but it can be used in conjunction other AMALs.

The Monitoring Oxygen Ventilation and External Suction Device (MOVES) is a significant upgrade to the ERCS. It effectively eliminates oxygen bottles from the battlefield and improves pre-hospital life support throughout the entire patient stabilization and transportation process. This single, integrated device will effectively replace the existing ventilator with monitor, suction device, oxygen bottles, and the cumbersome Special Medical Emergency Evacuation Device (SMEED) bracket, which will significantly reduce cost, cube, and weight, while enhancing the quality of care and improving survivability for trauma patien

The Forward Resuscitative Surgery System (FRSS) provides Level I and II Health Service Support (HSS). The FRSS is a highly mobile, rapidly deployable, trauma surgical unit that provides emergency surgical interventions to stabilize casualties that might otherwise die or lose limbs before reaching treatment. The FRSS is the lightest and most mobile of the Marine Corps HSS elements capable of providing trauma surgical care. The FRSS is modular, rapidly transportable and deployable by air of surface means. Included in the FRSS are medical materials, a shelter, ancillary equipment, and mobile electric power.

Operating Room Equipment (Or AMAL 639-640) provides surgical capability to the surgical trauma platoon and forward Resuscitative Surgery System (FRSS). AMALs 639-640 is employed as part of the phase health services by having additional surgical capabilities to the FRSS. Each AMAL provides two additional surgical suites to the overall Medical Battalion complement of services.

Exhibit P-40, Budget Item	Date: May 2009			
Appropriation / Budget Activity/Serial No:			P-1 Item Nomenclature:	
Procurement, Marine Corps (1109) / Engineer and Other Equipment ((6)		652200 - FIELD MEDICAL EQUIPMENT	
Program Elements:	Code:	Other Related	Program Elements	
0206315M Force Service Support Group	Α			

Medical Battalion Reorganization Equipment: A reorganization of the Medical Battalion's function to provide more mobile, scalable, and tailorable treatment facilities su Forward Resuscitative Surgery Suite (FRSS) and Shock Trauma Platoon's (STP) as far forward as possible in the battlefield to meet future USMC warfighting requirements.

GEO Cold/GEO Hot weather medical supplements is designed to provide additional capabilities for prophylaxis treatment of endemic diseases associated with hot and dold weather environments

Preventive Medicine AMALs have been redesigned into module sets for the senior medical representative to the industrial hygiene and entomologist. Two of the modules provide for basic preventive medicine capabilities to include food inspection, field sanitation, water potability disease surveillance and control. The subsequent modules provide additional equipment and supplies to conduct industrial hygiene functionality, environmental health assays and entomology functionality.

Vaccine and Reagent Refrigeration System (VARRS) is designed to provide an effective means of storing vaccines and laboratory reagents blood which will be used to save lives of its warfighters in extreme weather environments such the summer desert in the Middle East, or jungle environments in South East Asia. The current refrigeration system is inadequate and can not withstand these austere environments. VARRS will have increased operating and storage capabilities to meet the medical refrigeration requirements.

Family of Incident Response System (FIRS) is comprised of:

- a. FIRS is a roll up program consisting of over 70 Commercial Off-The-Shelf (COTS) technologies meeting mission requirements of the Chemical/Biological Incident Response Force (CBIRF) and the Marine Air-Ground Task Forces (MAGTF).
- b. CBIRF is a task organized unit that, when directed, will forward-deploy and/or respond to a credible threat of a chemical, biological, radiological, nuclear, or high explosive (CBRNE) incident to assist local, state, or federal agencies and designated Combatant Commanders in the conduct of consequence management operations by providing capabilities for agent detection and identification, casualty search, rescue, and personnel decontamination; and emergency medical care and stabilization of contaminated personnel.
- c. The Marine Air-Ground Task Force (MAGTF) Consequence Management (CM) Force Protection Sets are tailored sets of COTS consequence management equipment, modeled on CBIRF capabilities, that provide the MAGTF Commanders an enhanced capability of force protection above that available from his normal NBC defensive equipment.

Family of Shelter and Tents is comprised of:

The Rigid/Electromagnetic Compatibility (EMC) Maintenance Shelter is designed to provide protection for personnel and equipment from debilitating effects of continuous exposure in diverse climatic conditions. These 10 and 20 foot maintenance shelters are used to provide Intermediate (3rd and 4th echelon) and organizational (2nd ech maintenance of communication electronics equipment. The EMC Maintenance Shelter, utilizing state of the art construction technology, provides a multipurpose, electromagnetic interference protection, and environmental sealed and insulated against dust, rain, and extreme temperatures.

The 10 and 20-foot EMI/EMC shelter has an ISO fitting at each corner, EMI shielded hard surface panels, a rear end panel with a personnel door with internally and externally lockable handles a front end panel with an emergency door and access panels for ECU hookup. The shelter has an integral electrical system. Four longitudinal skids are beneath the floor panel with four tineways perpendicular to the skids, rail and road transportable. The shelter is watertight and fungus-resistant

Expandable ISO Shelter provides for rapid deployment and expansion. The Expandable Shelter provides hard surface panels, a rear end panel with a personnel door with internally and externally lockable handles a front end panel with an emergency door and access panels for ECU hookup. The shelter has an integral electrical system. The shelter is self-contained, and generally folds out on one or both sides to double or triple the unexpanded floor space. Four longitudinal skids are beneath the floor pane four tineways perpendicular to the skids, rail and road transportable. The shelter is watertight and fungus-resistant.

Exhibit P-40a	Exhibit P-40a, Budget Item Justification for Aggregated										way 2009									
Appropriation / Budget Activity Procurement, Marine Corps (1109) / Engineer and Other	Equipme	ent (6)				P-1 Item Nomencl	ature: D MEDICAL EC	DUIPMENT												
Procurement Items	Code		Prior Years (\$M)	FY 2008 (\$M)	FY 2009 (\$M)	FY 2010 (\$M)	FY2010 OCO (\$M)													
Enroute Care	Α	D	9.696	4.900	4.717	2.791	000 (ψIVI)													
Ellioute Care	_ A	Q	VAR	VAR	VAR	VAR														
		Ψ.	V/IIC	Viut	Viut	7711														
Medical X-Ray Equipment	Α	D		1.250																
modical Array Equipment	, ·	Q		VAR																
		~		77.11																
Field Dental System	Α	D			2.771	0.603														
,		Q			VAR	VAR														
Mobile Oxygen Ventilation External Suction (MOVES)	Α	D		1.000	4.830															
		Q		VAR	VAR															
Forward Resuscitative Surgery	Α	D	64.000	3.033	4.483															
		Q	VAR	VAR	VAR															
Operating Room Equipment	Α	D	2.800	4.202	3.549															
		Q	VAR	VAR	VAR															
Medical Battalion Reorganization Equipment	Α	D		3.460																
		Q		VAR																
	-																			
GEO Cold/GEO Hot	Α	D		2.900																
	1	Q		VAR																
	+																			
Preventive Medicine	Α	D		0.582																
		Q		VAR																
Vaccine and Reagent Refrigeration System (VARRS)	Α	D			4.599															
vaccine and Reagent Reingeration System (VARRS)	А	Q			4.599 VAR															
		Q			VAIX															
Family of Incident Response System (FIRS)	Α	D		1.601	3.474	3.417														
21 modern receptance dystom (i into)		Q		VAR	VAR	VAR														
Expandable Shelters	Α	D		1.490			İ													
		Q		7																
EMI Shelters Maintenance Complex	Α	D		2.792	0.614															
		Q		42	10															
Rigid/Electromagnetic Shelters	Α	D		0.993																
		Q		17																
	1																			
	ļ						ļ													
	ļ						ļ													
	1																			
Total	1			28.203	29.037	6.811														

	Exhibit P-4	40, Budget Item	Justificatio			Date:		May 2009					
Appropriation / Budge	et Activity/Serial No:				P-1 Item Nomenclature:								
Procurement, Marine	Corps (1109) / Enginee			TRAI	NING DEVICE	S							
Program Elements: Code: Other Related						ments:							
0206211M	Divisions (Marine)		Α										
	Prior Years	FY 2008	FY 2009	FY 2010	FY 2010 OCO	FY 2010 Total							
Proc Qty													
Gross Cost	457.1	127.5	115.0	14.9	157.7	172.6							
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	457.1	127.5	115.0	14.9	157.7	172.6							
Initial Spares		0.0	0.0	0.0	0.0	0.0							
Total Proc Cost	457.1	127.6	115.0	14.9	157.7	172.6							
Flyaway U/C													
Wpn Sys Proc U/C						·							

CENTER FOR ADVANCED OPERATIONAL CULTURE LEARNING (CAOCL) provides a turnkey solution to support the growing demand for technologically enhanced foreign language training. This solution should be in the form of self-sustaining Language Learning Resource Centers (LLRCs) as training units. The USMC requires up to 30 LLRC units deployed to multiple CONUS and OCONUS locations. The USMC LLRCs will comprise the following basic requirements: be mobile with support for 16 students in a variety of ways, contain high speed unrestricted internet access, satellite radio and television capability, web based with a web server, contain a database server and 16 complete workstations, contain integrated Heating/Ventilation Air Conditioning and Back-up Power generator. The USMC requirement is to implement a LLRC solution that has the ability to operate with minimum impact on resources from the hosting military installation

COMBINED ARMS COMMAND AND CONTROL TRAINER UPGRADE SYSTEM (CACCTUS) will upgrade the remaining three Combined Arms Staff Trainers (CAST) to provide a more realistic training opportunity for Marine Air Ground Task Force (MAGTF) staff elements in the areas of fire support employment, coordination, and integration. The upgraded system will grow to support Marine Expeditionary Battalion (MEB) level training and to effectively integrate current and emerging Communications Command Control Computers and Intelligence (C4I) systems. Ultimately the upgrade will allow for the development of mission plans, rehearsal of developed plans, tools to support after-action and debrief; distributed training and will be interoperable with operational C4I tactical data systems.

COMMAND AND CONTROL TRAINING AND EDUCATION (C2 TECOE) will support all Command and Control sustainment training with training sites at each Marine Expeditionary Force (MEF), 29 Palms, and Headquarters at Quantico. As the sole organization for incidental user sustainment training, the yearly funding is for equipment refresh and procurement of new training systems. A portion of the C2 computer systems are replaced each year to provide current systems for relevant training to the Marines.

Exhibit P-40, Budget Item Justification Sheet		Date: May 2009
Appropriation / Budget Activity/Serial No:	P-1 Item Nomenclature:	
Procurement, Marine Corps (1109) / Engineer and Other Equipment (6)		TRAINING DEVICES

COMBAT VEHICLE APPENDED TRAINER (CVAT) conducts individual, crew, section, and platoon gunnery and tactics training. All controls and sights are replicated at the commander and gunner stations, which facilitate crew coordination skills. This effort will integrate the electronic turret drive capability from the current hydraulic turret drive capability in all the existing CVTS-LAV training systems.

DEPLOYABLE VIRTUAL TRAINING ENVIRONMENT (DVTE) procures hardware computers that provide first person skills sustainment training using a simulation network with reconfigurable workstations capable of emulating a variety of weapon systems. Individuals select the weapon, vehicle, or leadership billet desired, then join a virtual battle space where others and synthetic forces are engaged in virtual operations. Individual Marine Air Ground Task Force (MAGTF) skills can be trained in this virtual environment using a Semi-Autonomous Force (JSAF) model as its basis. The project responds to the need for a flexible, deployable training system that provides combined arms MAGTF and Naval Integration training.

DISTANCE LEARNING delivers effective training by using modern instructional technologies (interactive software/courseware). The DL Program provides access to Marines to training and education products to increase operational readiness levels. The DL Program delivers courseware for both garrison and deployed Marines. In garrison Marines use Learning Resource Centers (LRCs) that are NMCI seats, Deployed Marines access training through Deployable Learning Resource Centers (DLRCs) which are MCHS hardware. Both garrison and deployed access are supported by MCHS servers that provide student administration and deliver content over local and wide-area networks (LAN/WAN) to include the MCEN/NMCI. All DL PMC funds are for integration and installation and procurement of the hardware to support the current distance learning infrastructure which has a continuous expanding distance learning user population. Non-NMCI hardware is refreshed every 5 years. In FY 2009 27 Deployable Learning Resource Center (DLRC) suites will be refreshed.

HIGH MOBILITY MULTI-PURPOSE WHEELED VEHICLE EGRESS ASSISTANCE TRAINER (HEAT) provides the training opportunity to experience vehicle roll-over conditions as well as rehearse and physically execute the steps necessary to survive a vehicle roll-over. This effort will purchase additional trainers.

HOMESTATION Phase I/II & HOMESTATION TRAINING LANES funding continues modernizing major USMC base and station live training ranges enabling them to conduct Predeployment Training Phase I/II by providing enhanced after action review with ground truth feedback, realistic representation of opposing forces (OPFOR) and enhanced range and exercise control capabilities. Integrating live and simulated training technologies, the fielded capabilities enhance live-fire, force-on-target, and force-on-force training. Major system components of modernization include Military Operations in Urban Terrain (MOUT) facilities, inter-active target, battlefield effects simulators, training improvised explosive devices (T IEDs), individual and vehicle tracking systems, aviation tracking systems, tactical engagement simulation system (TESS), simulated munitions, integrated simulation (Intelligence components), and range control and exercise control information processing and situational awareness displays to be used in Pre-Deployment Exercises. Homestation modernization and will continue to enhance the capabilities and give deploying units the opportunity to better meet training requirements before exercising as larger Marine Air-Ground Task Forces (MAGTF) and deploying to the combat theaters.

Exhibit P-40, Budget Item Justification Sheet	Date: May 2009
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Engineer and Other Equipment (6)	P-1 Item Nomenclature: TRAINING DEVICES
procurement of multiple simulated threat weapons, system enhancements to support dimensional simulation based trainer for indoor use capable of instructing in basic and	ide upgrades to existing training systems (ISMT-E and ISMT-MSG) and will consist of the increased training requirements and training spares package. The ISMT-E is a three d advanced marksmanship, shoot/no-shoot judgment, combat marksmanship, and weapons but is a man portable, digital based system that provides the USMC and State Department
simulations. These devices such as Training-Improvised Explosive Devices (IEDs), Renhance basic occupational and combat skills across the wide spectrum of tactics, teccommercial/service non-developmental training devices, used by Marine Corps School	urement of low density, minor (low cost) MAGTF ground training equipment, simulators and Recognition of Combat Vehicles (ROC-V), climbing walls, PITS, weapons models and mockups chniques, procedures and firearms and weapon proficiency. MTDs are for the most part ols of Infantry, Marine Corps Martial Arts Program, Recruit Depots, operating forces, bases, conduct critical OCO/OIF/EF training and participate as a full-fledged member of several Joint
Engagement Simulation System for the Marine Corps and provides a family of low por assault, armor, anti-armor mechanized weapons system and provides the gunner with	interest program between the U.S. Marine Corps and the U.S. Army. It is the Tactical wer, eye safe lasers which simulates the direct fire characteristics of infantry small arms, in hit or miss determination. MILES 2000 is designed to be used by the MAGTF as a force-on-at the United States Marine Corps is using for the Range Instrumentation System initiative and
These PRAETORIAN capabilities at MCAGCC(Marine Corps Air Ground Combat Ce and AAR capabilities and will be deployed to support Military Operations in Urban Ter	FLASHLIGHT) is Congressional funding to continue the Range Modernization and ation (T2) including Joint National Training Capability (JNTC) and Distributed Operations. Inter), Twenty-nine Palms, CA provides Real-Time Visualization, Situation Awareness (SA), train (MOUT) training. The TVCS will support these capabilities by using a video process which we the panoramic view is used in real-time to observe Marine's Urban Warfare tactics and for

Exhibit P-40, Budget Item Justification Sheet		Date: May 2009
Appropriation / Budget Activity/Serial No:	P-1 Item Nomenclature:	
Procurement, Marine Corps (1109) / Engineer and Other Equipment (6)		TRAINING DEVICES

RANGE TRANSFORMATION INITIATIVE is a Congressional Add to continue modernizing the Marine Corps Air Ground Combat Center (MCAGCCC), Twenty-nine Palms, CA live training ranges by providing enhanced after action review with ground truth feedback, realistic representation of opposing forces (OPFOR) and enhanced range and exercise control capabilities. Integrating live and simulated training technologies, the fielded capabilities enhance live-fire, force-on-target, and force-on-force training. Major system components of modernization include Military Operations in Urban Terrain (MOUT) training facilities, inter-active targetry, battlefield effects simulators, individual and vehicle tracking systems, aviation tracking systems, MILES/TESS, simulated munitions, integrated simulation, and range control and exercise control information processing and situational awareness displays. The ability to globally connect USMC live training with distributed simulation and joint training is accomplished by a common training-information architecture and localconnecting infrastructure. .

SPECIAL EFFECT SMALL ARMS MARKING SYSTEM (SESAMS) is a user-installed weapons modification kit that allows the individual Marine to fire, at short range, a low velocity marking ammunition (paint ball) while precluding the weapon from firing live ammunition. SESAMS provides instantaneous feedback during force-on-force close guarter battle scenarios and MOUT exercises. This immediate visual and sensory feedback to the shooter and target without firing live ball ammunition reduces risk to participants and significantly reduces the maintenance costs to shooting houses. SESAMS has been integrated with MILES 2000 for electronic After Action Review (AAR) Enhancement.

SNIPER TRAINING SYSTEM (STS) supports annual marksmanship qualification and sustainment training. USMC Snipers must maintain a constant state of proficiency and readiness at the highest level whether shore-based or afloat. STS combines visible spectrum pulsed laser light with laser-sensitive targets to form an array of training system options for unique marksmanship training demands.

SUPPORTING ARMS VIRTUAL TRAINER (SAVT) provides training to the Joint Terminal Attack Controllers (JTAC) and the Forward Observers (FOs) in tactical proficiency and operational readiness in a high fidelity dome environment. This effort will procure and deliver six (6) SAVT simulation systems to I, II, and II MEF.

TACTICAL VIDEO CAPTURE SYSTEM is a Congressional add to continue the Range Modernization and Transformation (RM/T) program which implements OSD directed Training Transformation (T2) including Joint National Training Capability (JNTC) and Distributed Operations. These TVCS capabilities at MCAGCC, Twenty-nine Palms, CA provides Real-Time Visualization, Situation Awareness (SA), and AAR capabilities and will be deployed to support Military Operations in Urban Terrain (MOUT) training. The TVCS will support these capabilities by using a video process which combines raw/captured video from multiple cameras into a single wide-panoramic view. The panoramic view is used in real-time to observe Marine's Urban Warfare tactics and for later use during group and individual AAR evaluation sessions.

VIRTUAL CONVOY COMBAT TRAINER (VCCT)/COMBAT CONVOY SIMULATOR (CCS) system trains vehicle operators, convoy commanders, and small unit personnel in the Tactics, Techniques, and Procedures (TTP) of vehicle convoy operations to include unit Standing Operating Procedures (SOP) and immediate actions executed in the threat environment. It will expose Marines to various threat situations such as improvised explosive devices (IED), direct and indirect fires, car bombs, roadblocks, and urban operations that cannot be otherwise simulated. It will place the entire convoy unit in a realistic environment that allows for repetition, review and critique, while saving time, maintenance, ammunition, equipment, weapons, and range facilities.

Exhibit P-40 BLI No. 653200 Page 4 of 14 **Budget Item Justification Sheet**

Exhibit P-40, Budget Item Justification Sheet	Date: May 2009
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Procurement, Marine Corps (1109) / Engineer and Other Equipment (6)	TRAINING DEVICES

COMMUNICATION EQUIPMENT will support dispersed operations and a unit/section's capability to operate at Marine Air Ground Task Force Training Command (MAGTFTC), Twentynine Palms, CA, Marine Corps Mountain Warfare Training Center (MCMWTC), CA, and Marine Corps Air Station, Yuma, AZ and its associated training areas in southern California. Equipment will include items such as an AN/MRC-145 (A1957-vehicular-mounted Single Channel Ground and Airborne Radio System{SINCGARS}), AN/PRC-117F Multi-Band Radio (MBR) (A2068), Command Post Of Future (CPOF) software, and other Command and Control (C2) systems. To support the communications equipment, a Marine Corps' Support Wide Area Network (SWAN) will be required to provide the warfighters a robust, beyond-line-of-sight communications.

EXERCISE EQUIPMENT ALLOWANCE POOL will meet MAGTFTC's requirement to run effective Mountain Viper/Operation Enduring Freedom (OEF) Pre-Deployment Training Program (PTP). MCMWTC requires the addition of an Equipment Allowance Pool (EAP) and upgraded allowance for a pre-expended bin. Because training units are not fielded with the equipment in Continental United States (CONUS) that will be used in theater, it is imperative that Tactics, Techniques, and Procedures (TTP) familiarization take place with the equipment before units deploy. Additionally, the heavy equipment assets will be utilized by MCMWTC permanent personnel to maintain installation requirements and fill gaps where Southwest Regional Fleet Transportation (SWRFT) cannot support.

INFANTRY IMMERSION TRAINER (IIT)(I MEF SET RE-DESIGN / II MEF SET CONSTRUCTION) - Current combat operations in Afghanistan (OEF) (OCO) are being conducted in both urban and rural areas. Training is required to support the complexities of command and control, live-fire coordination in support of maneuver, and logistics operations in support of units at and above company level. Deploying Operational Units need access to an adaptive, interactive, full immersive trainer focused on the infantryman and those who require honed rifleman skills. The desired end state of the immersive trainer is to provide warriors that are better trained to make moral, ethical, and legal decisions on the battlefield. The home station that will benefit from this project is Camp Lejeune, NC. These capabilities give deploying units the opportunity to better meet training requirements before exercising as a MAGTF at Mojave Viper and deploying to the combat theaters. Additionally lessons learned from OIF and OEF are driving the need for new training systems supporting a seamless training environment allowing crucial core capabilities to be available for all Marines at all sites at once. The requested funds would enhance and refresh the training capabilities sponsored in the Range Modernization and Transformation (RM/T) program. This program seeks to modernize major USMC base and station live training ranges to provide enhanced after action review with ground truth feedback, realistic representation of opposing forces (OPFOR) and enhanced range and exercise command and control capabilities. Funding will be used to establish an immersive trainer for II MEF. The Afghan/Iraqi theater set will have a market area, Mosque, multi-story structures for sniper and oversight points, vehicle entry and exit lanes, as well as instrumentation, battlefield effects simulation, and virtual role player representation.

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INSTRUCTOR SUPPORT EQUIPMENT FOR MOUNTAIN WARRIOR to support the training unit's day and night training at Marine Corps Mountain Warfare Training Center (MCMWTC), CA, instructors need to be familiar with and employ the same equipment that the training units deploy with. This includes the latest issue in day optics, night vision equipment, and thermal imaging equipment. This will better allow the instructors to be conversant in the capabilities and limitations of such equipment in the mountainous, cold weather, and high altitude environment. Additionally, it will allow the instructors to be able to see the same things as the unit at night and assess them on their performance accordingly.

MOBILE OPERATION IN URBAN TERRAIN (MOUT) FACILITIES funds will support the procurement of ISO containers to support MAGTFTC, Twentynine Palms, CA. The Containers will be used to construct a second MOUT facility to support Forward Air Controller Training and other ACE training during Mojave Viper exercises. This MOUT facility is required to support the second Bn that will be part of the expanded "Dual Mojave Viper" Training Program. The current range is not adequate to support all training requirements. The ISO buildings are as follows: (6) 3 story buildings, (24) 2 story buildings, (40) single story, (25) single story, (1) Mosque, (2) U shaped buildings, (5) 2 story 120' buildings, (5) 2 story L shaped buildings and (3) H shaped buildings. The ISO Containers would be a one time cost to create this unique training facility.

RADIO COUNTER IMPROVISED EXPLOSIVE DEVICE (RCIED) ELECTRONIC WARFARE provides training devices replicating fielded Counter Radio Electronic Warfare (CREW) systems including the Chameleon, Duke, and Warlock Surrogate Family of Systems. Funds will allow for continued fullfilment of Marine Corps training requirements while refreshing existing Surrogate Systems.

RANGE TRAINING AREA MANAGEMENT (RTAM)/RANGE MODERNIZATION/TRANSFORMATION (RM/T) unding will modernize major USMC base and station live training ranges by providing enhanced after action review with ground truth feedback, realistic representation of opposing forces (OPFOR) and enhanced range and exercise control capabilities. Integrating live and simulated training technologies, the fielded capabilities enhance live-fire, force-on-target, and force-on-force training. Major system components of modernization include Military Operations in Urban Terrain (MOUT) facilities, inter-active targetry, battlefield effects simulators, individual and vehicle tracking systems, aviation tracking systems, MILES, simulated munitions, integrated simulation, and range control and exercise control information processing and situational awareness displays.

TRAINING DEV FIRE AND MANEUVER INTEGRATION AND DIVISION (FMID)/FOREIGN WEAPONS TRAINING KITSwill support the addition of eight (8) kits and eight (8) armory containers with specified rack system to support the increased requirement for those that will complete the Train the Trainer to actually train their deploying units with. This funding will provide foreign weapons needed to allow hands-on, detailed, and realistic training to all Marines. Each kit contains eleven (11) variations of weapons and three (3) variations of ammunition.

COMBAT VEHICLE TRAINING SYSTEM (CVTS) consists of the Advanced Gunnery Training System (AGTS)- M1A1, AGTS-Light Armored Vehicle (LAV) and the Amphibious Assault Vehicle (AAV) Turret Trainer (TT). The AGTS provides the ability to train M1A1 and LAV-25 crew members in combat skills and readiness. The AAV -TT is a stand-alone trainer using the surplus AAV turret and modified ISMT weapons to provide individual, crew and section gunnery training. The Operational Requirements Document (ORD) dated 22 January 02 established the requirement for an institutional and Deployable AGTS (DAGTS) system for the M1A1, LAV and AAV communities, requiring crew gunnery training to encompass the driver. This effort procures DAGTS for the AAV community and enhanced driver capability for LAV and AAV training units. This funding will also procure 3 additional follow on M1A1/LAV-25 trainers for the new units.

Exhibit P-40, Budget Item Justification Sheet	Date: May 2009
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Procurement, Marine Corps (1109) / Engineer and Other Equipment (6)	TRAINING DEVICES

MARINE CORPS UNDERWATER EGRESS TRAINING/AMPHIBIOUS EGRESS TRAINER (MAET) is an underwater escape trainer with a generic fuselage section with modules and exits reprinting specific aircraft, cockpit and cabins for select amphibious vehicle platforms. The Submerged Vehicle Egress Trainer (SVET), which was defined by a Statement of Need (SON) submitted by TECOM, is used to train egress from rollover/submerged ground vehicles, replicating the HMMWV, and other ground platforms. These training devices support the Underwater Egress Training Program conducted at Camp Hansen, Okinawa, Japan, MCB Kaneohe Bay, Hawaii, Camp Pendleton, CA and Camp Lejeune, NC. Procurement funding is required to acquire four (4) SVET (High Mobility Multipurpose Wheeled Vehicle (HMMWV)/Mine Resistant Ambush Protected (MRAP) modules at four training sites, Pendleton, LeJeune, Okinawa and Hawaii.

RANGE MODERNIZATION/TRANSFORMATION (RM/T) program modernizes major USMC base and station live training ranges to provide enhanced after action review with ground truth feedback, realistic representation of opposing forces (OPFOR) and enhanced range and exercise command and control capabilities. Integrating live and simulated training technologies, the fielded capabilities enhance live-fire, force-on-target, and force-on-force training. Major system components of modernization include Military Operations in Urban Terrain (MOUT) facilities, inter-active targetry, battlefield effects simulators, individual and vehicle tracking systems, aviation tracking systems, Tactical Engagement Simulation Systems, simulated munitions, integrated simulation, and range control and exercise control information processing and situational awareness displays. Current combat Operations in Iraq (OIF) and Afghanistan (OEF) is support OCO are being conducted in largely urban areas. Training is required to support the complexities of command and control, live-fire coordination in support of maneuver, and logistics operations in support of units at and above company level. Deploying Operational Units need access to instrumented, non live fire and live-fire capable MOUT training facilities, urban sniper training capabilities, convoy operation/reaction course capability, Urban Close Air Support (CAS) ranges, and IED/EOD training capability in order to accomplish this training and bring the Marine Corps into the 21st century, to include a fully immersive infantry trainer (IIT). These capabilities give deploying units the opportunity to better meet training requirements before exercising as a MAGTF at Mojave Viper and deploying to the combat theaters. Additionally lessons learned from OIF are driving the need for new training systems supporting a seamless training environment allowing crucial core capabilities to be available for all Marines at all sites at once. The requested funds would enhance the training capabilities sponsored in the Ran

UNITED STATES MARINE CORPS -OPERATOR DRIVING SIMULATOR (USMC-ODS) provides sustainment and refresher training to vehicle operators at Active and Reserve locations for the Medium Tactical Vehicle Replacement (MTVR), MTVR-Marine Armor System (MAS), High Mobility Multipurpose Wheeled Vehicle (HMMWV), Cougar and Buffalo vehicles. The trainer utilizes an interchangeable dash set, three degrees of freedom seat motion for the driver, and 180 degrees visual display. There are two types of configurations, fixed and mobile. The fixed configuration is located in an existing air conditioned facility and the mobile configuration is housed within a trailer that is fully self contained. The current graphics and textures of the existing USMC-ODS databases are beginning to look subpar as compared to current industry standards expanding, which are expanding rapidly. The Visual Database upgrade will help bring the graphics of the USMC-ODS up to industry standards. This is in answer to recent feedback received from Marines that say the ODS looks "cartoonish" and makes them motion sick. Also, the current driving scenarios are tailored to assist in the Incidental Tactical Vehicle Operators Licensing course. The development of the new roll-over prevention scenarios will better prepare our Marine to drive the Mine Resistant Ambush Protected (MRAP) vehicles in tactical situations, including crowded urban areas and debris-cluttered streets. Marine Corps Communication-Electronics School (MCCES) currently has a single ODS system. They need another ODS to reduce the bottleneck of their Incidental Motor vehicle operator licensing program.

Exhibit P-40, Budget Item Justification Sheet	Date:	May 2009
Appropriation / Budget Activity/Serial No:	P-1 Item Nomenclature:	
Procurement, Marine Corps (1109) / Engineer and Other Equipment (6)	TRAIN	IING DEVICES

MARINE AIR GROUND TASK FORCE TACTICAL CENTER (MAGTFTC) EXERCISE CONTROL OF DISPLAY SYSTEM AND ADMINISTRATIVE CENTER VISUAL DISPLAY SYSTEM will display exercise control images from one building (1655) to another adjacent building (1653) for both classified and non-classified exercises in support of Live Virtual Constructive exercises as part of Operations in Iraq (OIF) and Afghanistan (OEF) training. System will include new display system in the north end of bldg. 1655 with additional

display devices, audio and video equipment and the cabling to connect the system. System will include matrix switch and administrator control system to designate which feeds are displayed on different display screens. System will utilize existing Liquid Crystal Display (LCD) monitors throughout bldgs. 1653 and 1655. System will include hardware, engineering, administrator training and installation with follow-on support.

TRAINING COMMAND (TCOM) MARINE CORPS COMBAT SERVICE SUPPORT SCHOOL (MCCSSS) LOGISTICS SUPPORT WIDE AREA NETWORK (LSWAN) SYSTEM

The Tactical Decision Center (TDC) will support the Pre-deployment Training Program (PTP) for all Logistics Command Elements (LCEs) deploying to Afghanistan (OEF). This will require a more robust organic C2 system than MCCSSS currently possesses. The Logistics Support Wide Area Network (LSWAN) enables the TDC to communicate using several methods or systems. For example: the LSWAN is frequently used to transmit a Battle Command Sustainment Support System (BCS3) Common Operating Picture (COP), audio, video, and e- mail, etc. to the MCCSSS Unit Operations Center (UOC) Cap IV system. This LSWAN system will be used to augment the two current MCCSSS systems. Current operations tend to leave one system constantly in a state of repair making it difficult to train forward/rear command post operations together, as has been experienced lately with the Logistics Operations School's (LOS), Logistics Officer Course Field Exercise (LOCFEX). A third system will enable MCCSSS to always have a back-up system on hand, thus ensuring training is uninterrupted. Additionally, training requirements with the operating forces in the future will likely require the TDC to communicate with students undergoing training during the LOCFEX, while simultaneously supporting a separate training event with the operating forces which would require another LSWAN due to scenario specific requirements.

MARINE CORPS INTELLIGENCE SCHOOL (MCIS) - OPEN SOURCE INTELLIGENCE TRAINING (OSINT). Marine operational units are operating against tactical targets that are continually changing their procedures and methods, most of which are conducted over the internet. Navy and Marine Corps Intelligence Center (NMITC) Marine Detachment (MARDET) requires the OSINT course to support operational units in the field supporting the OCO. Funding is needed to fund a modular trailer classroom, to reflect real world operations in the training environment. The proliferation of new Marine intelligence courses and student throughput at the NMITC MARDET is at record high. This increase within the Marine Corps intelligence community has forced a new training requirement. There is an urgent need to provide the Intelligence Community (IC) the relevant and effective skills to use open source material as part of a complete analytical approach to answering information requirements. These new requirements have been levied through post deployment briefs and after action reports of operational units. The OSINT is the one area that is becoming a more relevant medium for analysts to use. The OSINT classroom will have commercial internet service vice using military or government internet domain. Instilling this skill set requires that the acquisition and training communities provide a cohesive training continuum linking OSINT into the MARDER formal school where traditional intelligence is taught. Open Source Intelligence Training is quickly becoming a more relevant skill set among the IC to provide a complete operational picture. The IC will continue to realize the value in using OSINT as a force multiplier to answer information requirements. Previously identified commercial vendor will be readily available to provide training as requirements are identified. Funding is urgently needed to fund a modular trailer classroom to reflect real world operations in the training environment.

Exhibit P-40a, Budget Item Justification	n for A	Aggreg	ated Items				Date:			May 20	09		
Appropriation / Budget Activity				P-1 Item	Nomencla	ature:							
Procurement, Marine Corps (1109) / Engineer and Other Equipment (6)					r	1		TRAIN	NG DEV	ICES		r	
Procurement Items	Code	UOM	Prior Yrs	FY 2008	FY 2009	FY 2010							
Baseline:				-			oco						
COMMAND AND CONTROL TRNING AND EDUCATION (C2 TECOE)	Α	D	0.000	0.000	0.000	0.000	0.000						
CENTER FOR ADVANCED OPERATIONAL CULTURE LEARNING (CAOCL	Α	D	0.000	0.210	0.633	0.602	0.000						
COMBAT VEHICLE APPENDED TRAINER (CVAT)	Α	D	0.000	4.990	0.000	0.000	0.000						
COMBAT VEHICLE TRAINING SYSTEM (CVTS)	Α	D	0.000	2.580	0.000	0.000	0.000						
COMBINED ARMS COMMAND & CONTROL UPGRADE SYS (CACCTUS)	Α	D	17.059	4.918	4.801	4.147	0.000						
CACCTUS	Α	D	0.000	0.250	0.000	0.000	0.000						
DEPLOYABLE VIRTUAL TRAINING ENVIRONMENT (DVTE)	Α	D	11.356	6.818	0.000	0.000	0.000						
DISTANCE LEARNING	Α	D	24.170	0.623	1.751	0.249	0.000						
HIGH MOBILITY MULTI-PURPOSE WHEELED VEHICLE EGRESS ASSISTANCE TRAINER (HEAT)	Α	D	0.000	1.900	0.000	0.000	0.000						
HOMESTATION PHASE I/II & HOMESTATION TRAINING LANES	Α	D	64.003	23.508	0.000	0.000	0.000						
INDOOR SIMULATED MARKSMANSHIP TRAINER ENHANCED (ISMT-E)	Α	D	25.309	3.555	0.000	0.000	0.000						
MULTIPLE INTEGRATED LASER ENGAGEMENT SYSTEM (MILES)	Α	D	13.738	9.505	0.682	0.012	0.000						
MINOR TRAINING DEVICES/SIMULATORS/IEDs	Α	D	5.368	0.918	0.969	0.981	0.000						
PRAETORIAN (VIDEO FLASHLIGHT) - RANGE MODERNIZATION TRANSFORMATION (RMT) - Congressiona	Α	D	0.000	4.000	0.000	0.000	0.000						
RANGE TRANSFORMATION INITIATIVE - Congressiona	Α	D	0.000	4.000	0.000	0.000	0.000						
SNIPER TRAINING SYSTEM (STS) - Congressional	Α	D	0.000	0.000	3.600	0.000	0.000						
SPECIAL EFFECTS SMALL ARMS MARKING SYSTEM	Α	D	6.842	2.024	0.005	0.000	0.000						
TACTICAL VIDEO CAPTURE SYSTEM - Congressional	Α	D	0.000	0.000	3.200	0.000	0.000						
USMC OPERATOR DRIVER SIMULATOR (USMC ODS)	Α	D	5.120	1.522	0.000	0.000	1.600						
Totals			172.965	71.321	15.641	5.991	1.600						
Active			172.965	71.321	15.641	5.991	1.600						
Reserve			0.000	0.000	0.000	0.000	0.000						

Exhibit P-40a, Budget Item Justification	n for <i>i</i>	Aggreg	ated Items				Date:			May 20	09	
Appropriation / Budget Activity Procurement, Marine Corps (1109) / Engineer and Other Equipment (6)				P-1 Item	Nomencl	ature:		TRAINI	NG DEV			
Procurement Items	Code	UOM	Prior Yrs	FY 2008	FY 2009	FY 2010	FY 2010		NG DLV	ICLO		
OFF MOUT FACILITIES		_	0.000	0.000	4.000	0.000	000					
OEF MOUT FACILITIES	A	D	0.000	0.000	1.000	0.000	0.000					
INSTRUCTOR SUPPORT EQUIPMENT FOR MOUNTAIN WARRIOR	Α	D	0.000	0.000	0.750	0.000	0.000					
OEF INFANTRY IMMERSION TRAINER (IIT) (I MEF Set Redesign)	Α	D	0.000	0.000	2.000	0.000	0.000					
RCIED ELECTRONIC WARFARE	Α	D	0.000	0.000	3.000	0.000	0.000					
				1								
MAGTFTC - G3 - Exercise Control Display System and Administrative Center	A	D	0.000	0.000	0.000	0.000	0.498					
TCOM - MCCSSS - Logistics Support Wide Area Network (LSWAN) System	Α	D	0.000	0.000	0.000	0.000	0.360					
TCOM - MCIS - Open Source Intelligence Training	A	D	0.000	0.000	0.000	0.000	0.481					
	A	D										
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	A	D										
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Total	s		0.000	0.000	6.750	0.000	1.339					
Activ. Reserv			0.000 0.000	0.000	6.750 0.000	0.000	1.339 0.000					
Reserve	-		0.000	0.000	0.000	0.000	0.000					

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Exhibit P-5, Cost Analysis		oriation/ Budget Act ement, Marine Corp	•		her Equipment	: (6)	P-1 Line Iten TRAI	n Nomenclati		Weapon Sys	stem Type:	Date:	May 20	09
Weapon System	ID	PRIOR YRS		FY 08			FY 09			FY 10 Baseli	ine		FY 10 O	СО
Cost Elements	CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
Range Modernization/Transformation (RM/T) (Multiple Instrumentation, MOUT, Targetry, and Battlefield Effects Simulator training systems and configurations at at major USMC base and station live training ranges, as follows): MCB Camp Pendleton, CA; 'MCAS Yuma, AZ MCB Camp Lejuene, NC; Kaneohe Bay, HI Okinawa, Japan; MCAGCC, 29 Palms, CA Mountain Warfare Training Center (MWTC) – Bridgeport, CA; MCB Quantico, VA	A	42772	20447	VAR	VAR	66581	VAR	VAR	8863	VAR	VAR	109795	VAR	VAR
Supporting Arms Virtual Trainer (SAVT)	Α	13717	2500	1	2500									
Software Configurations Program Management			6383 3305	VAR VAR										
Virtual Convoy Combat Trainer (VCCT) /Combat														
Convoy Simulator (CCS)	Α	20699	13089	3	4363									
Product Upgrades (Multiple Configurations)			9307	VAR	VAR									
1st year CLS - 4 trainers			1170	VAR	VAR									
OEF COMMUNICATIONS EQUIPMENT	Α					5000	VAR	VAR						
EXERCISE EQUIP ALLOWANCE POOL	Α					8000	VAR	VAR						
TRAINING Dev FMID/FOREIGN WEAPONS TRAININ (Each Kit has variations of weapons and variations of ammunition)	Α					5641	VAR	VAR						
OEF INFANTRY IMMERSION TRAINER (IIT) (II MEF Set Construction - Multiple live and virtual training systems configured/integrated into a single Infantry Immersion Trainer)	Α					7400	VAR	VAR						
Combat Vehicle Training Sys (CVTS)	Α											15250	20	763
CVTS- AAV DAGTS												20250	20	1013
CVTS-LAV Driver Trainer Enhancements												4500	3	1500
CVTS- M1A1/LAV Trainer Procurement														
Modular Amphibious Egress Trainer (MAET) Procurement of SVET for Pendleton, LeJeune, Okinawa and Hawaii	Α											5000	4	1250
TOTAL			56201			92622			8863			154795	1	
ACTIVE RESERVE			56201 0.00			92622 0.00			8863 0.00			154795 0.00	1	

	Exhibit P-5a, Budget Procureme	nt History	and Planning					Date:	May 200	10
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Engir	neer and Other Equipment (6)	Weapon Sy	stem Type:		P-1 Line I		nclature: TRAINING DE	VICES	May 200	9
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issue Date
Supporting Arms Virtual Trainer (SAVT) FY07 - Trainers FY08- Trainers	T.J. Drafting and Design, Christmas, FL T.J. Drafting and Design, Christmas, FL	C/FFP FFP	TRASYS, Orlando, FL TRASYS, Orlando, FL	Apr-09 Apr-09	Oct-09 Aug-10	5	2500 2500		N/A N/A	Sep-0 Sep-0
Virtual Convoy Combat Trainer (VCCT) / Combat Convoy Simulator (CCS) FY07 FY08	Lockheed Martin, Orlando, FL Lockheed Martin, Orlando, FL	FFP FFP	TRASYS, Orlando, FL TRASYS, Orlando, FL	Oct-07 Dec-07	Jul-08 Aug-08	4 3	4565 4363		N/A N/A	Feb-0
Combat Vehicle Training Sys (CVTS) AAV-TT FY10 OCO DAGTS	TBD	C/FFP	PM TRASYS	Mar-10	Sep-11	20	763	Y		Sep-1
LAV Driver Training	TBD	C/FFP	ORLANDO, FL PM TRASYS ORLANDO, FL	Nov-09	Oct-10	20	1013	Y		Oct-0
Additional Trainers	TBD	C/FFP	PM TRASYS ORLANDO, FL	Nov-09	Oct-10	3	1500	Y		Apr-0
Modular Amphibious Egress Trainer (MAET) FY10 OCO										
SVET Procurement	Survival Systems USA, Inc 144 Tower Avenue Groton, CT 06340	FFP	PM TRASYS ORLANDO, FL	Apr-10	May-10	4	1250	Y		Jan-10

REMARKS:

MAET - FFP is for New Small Business Contract

	FY 07 BUI	GET	EXH	IBIT P-	21, PR	ODUC	TION	SCI	HED	DUL	E									Date	э:				Ma	y 20	09				
	BA/BSA/Item Control No. orps (1109) / Engineer and	Other	Equir	oment (6)		Wea	pon (Syst	tem				P-1	Item	Nor	nenc	latu	re:		TRA	ININ	G D	EVI		.y 20	00	1			
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SAVT	TBD						1		1	1	1	1		12			6			6						2	24		EAC	СН	
VCCT/CCS	Lockheed N	lartin, (Orland	do, FL (Reorder)	1		1	1	1	l		1			2			8						1	1	_	EAC	СН	
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SAVT		07	MC	5	0	5																			Α						ţ
SAVT		08	MC	1	0	1			-																Α			┢	╀	⊬	1
VCCT/CCS		07	МС	4	0	4	Α									1					1	1		1				┢	+	+	
VCCT/CCS		80	МС	3	0	3			Α								1									1	1		F	F	(
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	FY 07 BUD	GET	EXHI	BIT P-	·21, PR	ODUC	TION	I SC	HE	DUL	E.									Date	e:				Ma	y 20	09				
Appropriation Code/CC/BA/BSA/Item Procurement, Marine Corps (1109) /		Other	Equip	ment (6)		Wea	apon	Sys	tem				P-1	Item	Noi	mend	clatu	re:		TRA	ININ	G D	EVIC		<u> </u>					
							PI	ROD	UCT	ION	RA	ГЕ		_	PI	ROC	URE	MEI	NT L	EAD	MIT	ES									
ITEM	Manufacture	r's NA	AME /	LOCAT	ION		MS	SR	EC	ON	M	ΑX			or to		_T Af			Initia			eord						Unit		
CVTS-AAV-TT - DAGTS	TBD							1		3		5		Oct 12			Oct ²	l	IVI	fg Pl	LI	IVI	fg P 2	LI	⊢		TAL 11	—	Mea	asure)
Driver Enhancements							_	1		2		3		7			1			11			2		₩		12		EAC		
Additional Trainers								1						2			1			11			3		┢		12		EAC		
MAET - SVET	Survival Sys	tems l	JSA. I	nc Gi	oton. C	Т.		1		•				3			6			1			3		一		7		EAC		
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Combat Vehicle Training Sys (CVTS) AA\/-TT														1										┢	一		┢	╁	\vdash	0
DAGTS	/ / U (V 1	10	MC	20	0	20						Α			1			5		3		3	3	3	3	t	\vdash	t	 		0
Driver Enhancements		10	MC	20	0	20		Α											4			2		2		2		2	1	2	6
Additonal Trainers		10	MC	3	0	3		Α											1			1			1						0
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Modular Amphibious Egress Trainer	(MAET) SVET	10	MC	4	0	4							Α	1	1	1			1			1			⊢	╁	┢─	⊢	₩		0
	JVLI	10	IVIC	-	0	-	•						_	 	1	-			-			<u> </u>			lacktree	+-	一	lacktree	+-	\vdash	0
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Combat Vehicle Training Sys (CVTS) AAV-TT																								一	\vdash	一	一	一	\vdash	0
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Driver Enhancements		10	MC	6	0	6		2		2		2																			0
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BLI No. 653200 Item No. 53 Page 14 of 14 Exhibit P-21, Production Schedule

	Exhil	oit P-40, Budget Item 、	Justificatio	n Sheet			Date:		May 2009	
Appropriation / Budge					P-1 Item Nor	menclature:				
Procurement, Marine	Corps (1109) /	Engineer and Other Equip	oment (6)				COI	NTAINER FA	MILY	
Program Elements:			Code:	Other Relate	ed Program E	ements:				
0206315M Force	Service Suppo	rt Group	Α							
					FY2010	FY2010				
	Prior Years	FY 2008	FY 2009	FY 2010	oco	Total				
Proc Qty										
Gross Cost	74.0	25.6	5.1	3.8	0.0	3.8				
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc (P-1)	74.0	25.6	5.1	3.8	0.0	3.8				
Initial Spares										
Total Proc Cost	74.0	25.6	5.1	3.8	0.0	3.8				
Flyaway U/C										
Wpn Sys Proc U/C										

The Container Family provides the Fleet Marine Force with a fully intermodal transport capability emphasizing dimensional standardization and International Organization for Standardization compatibility. Two types of containers are procured, Pallet and Quadruple. The containers are end items and assets owned by the unit, expeditionary in nature. Components for the containers such as racks, horizontal connectors and inserts are not end items and do not have Acquisition Objectives. Containers will replace locally assembled prefabricated wooden mount out boxes and flat and box pallets. The containers will be used to support storage and movement of organizational property and consumable supplies, provide field, garrison and shipboard warehousing, and facilitate ship-to-shore movement.

					FY10	FY10
		FY08	FY09	FY10	oco	Total
Active	Gross Cost	21.8	4.5	3.2	0.0	3.2
Reserve	Gross Cos	3.8	0.6	0.6	0.0	0.6
Total	Gross Cos	25.6	5.1	3.8	0.0	3.8

Exhibit P-40a, Budget Item Justifica	ation	for Ag	gregated Iten	ıs		Date:	May 2009		
Appropriation / Budget Activity				P-1 Item No	menclature:				
Procurement, Marine Corps (1109) / Engineer and Oth							CONTAINER FAM	MILY	
Procurement Items	Code	UOM	Prior Years	FY 2008	FY 2009	FY 2010	FY2010 OCO		
		_							
Pallet Container (PALCONS)	Α	D Q	27.800 VAR	0.000	2.563 VAR	1.885 VAR			
Quadruple Container (QUADCONS)	Α	D	30.200	0.000	2.554	1.885			
		Q	VAR		VAR	VAR			
TOTAL			58.000	0.000	5.117	3.770			
ACTIVE RESERVE				0.000	4.509 0.608	3.205 0.565			

Exhibit P-5		on/ Budget Ad			P-1 Line Ite	m Nome	enclature:	Weapon Sys	tem Typ	e:	Date:		
Cost Analysis		nt, Marine Co nd Other Equi			CONTA	AINER F	AMILY				М	ay 2009	
Weapon System	Prior Yrs		FY 08			FY 09			FY 10		FY2	010 OC	
Cost Elements		t TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	TotalCost \$000
Pallet Containers (QUADCONS) Connectors (Charleston Marine Containers)		6551 493											
Pallet Containers (QUADCONS) Connectors (Seabox Inc)		6631 653											
Pallet Container (PALCONS Racks (PALCONS) Half Inserts (PALCONS)		6674 2541 868	6887	369									
Integrated Logistics Support		1174											
Total Active Reserve		25585 21747 3838	1										

			Date: May 2009							
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Engine	eer and Other Equipment (6)	Weapon	System Type:		P-1 Line		FAMILY			
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method & Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFF Issu Date
FY08		туре			Delivery				Avaii	Date
Pallet Containers (QUADCONS)	Charleston Marine Containers, Charleston, SC	RCP	Contracts, Quantico, VA	Apr-08 Apr-08	Sep-08	2366		Υ		
Connectors	Charleston Marine Containers, Charleston, SC	RCP	Contracts,Quantico, VA		Sep-08	6015		Υ		
FY08										
Pallet Containers (QUADCONS) Connectors	Seabox, Inc, Newark, NJ Seabox, Inc, Newark, N	RCP RCP	Contracts, Quantico, VA Contracts, Quantico, VA		Dec-08 Dec-08	2475 7425				
FY08										
Pallet Container (PALCONS) Racks (PALCONS) Half Inserts (PALCONS)	Plastics Research Corp, Ontario, Plastics Research Corp, Ontario, Plastics Research Corp, Ontario,	RCP RCP RCP	Contracts, Quantico, VA Contracts, Quantico, VA Contracts, Quantico, VA	Jul-08 Jul-08 Jul-08	Dec-08 Dec-08 Dec-08	6887 6887 6887	969 369 126	Υ		
REMARKS:										

EXHIBIT P-21, PRODUCTION SCHEDULE												Date: May 2009																		
Appropriation Code/CC/BA/BSA/Item Control No. Procurement, Marine Corps (1109) / Engineer and Other Equipment (6)							Wea	oon S	ystem	١			P-1 Item Nomenclature: CONTAINER FAMILY																	
								PRO	DUC	ΓΙΟN	RATE		П			PRO	CURE	MENT	DTIMES				i i							
ITEM	Manufacturer's NAME / LOCATION							MSR ECC					ALT Prior to Oct 1		ALT After Oct 1						Reorder Mfg PLT				TAL	Unit o	f Mea	asure		
CHARLESTON MARINE CONTAINERS, Charleston, SC							6	40	6	40	6	40				-			5			5				11		0	E	
PALLET CONTAINERS (QUADCONS) SC PALLET CONTAINERS (QUADCONS) SEABOX, INC, Newark, NJ							40		240 240				6 11		1	3		3			14				╆					
PALLET CONTAINERS (PALCONS)	,									3125 3125				9			5		5			14								
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								Fiscal Year 08						<u>, </u>					Fiscal						۵.		—		В	
							riscai tear 08							Ca	lenda	r Year 0	8						iscai	Calendar Year 09						A L
		_	s	Q	D	В	0	N	D	J	F	М	Α	М	J	J A	s	0	N	D	J	F	М	Α	М	J	J	А	s	N C
		F Y	S V C	T	E	A	O C T	0 V	E C	A N	F E B	A R	P R	A Y	U N	J A U U L G	S E P	C T	O V	E C	A N	E B	A R	P R	A Y	U N	U	U G	E	E
ITEM				·	_	_	'	٧	C	IN	Ь	IX.		'	14						IN	Ь	IX.	IX.	'	14			ľ	
PALLET CONTAINERS (QUADCON		08	MC	2366	0	2366							Α				640		640									<u> </u>		0
PALLET CONTAINERS (CONNECT	ORS)	80	МС	6015	0	6015				1			Α				640	640	640	640	640	640	640	640	640	255		—		0
PALLET CONTAINERS (QUADCON	IS) Active	08	МС	1237	0	1237											Α			120	120	120	120	120	120	120	120	120	120	37
PALLET CONTAINERS (QUADCON	IS) Res.	08	MC	1238	0	1238											Α			120	120	120				120			120	38
PALLET CONTAINERS (CONNECT		08	MC	3712	0	3712											Α			240	240	240	240			240			240	131
PALLET CONTAINERS (CONNECTORS) Res.		08	MC	3713	0	3713											Α			240	240	240	240	240	240	240	240	240	240	131
PALLET CONTAINERS (PALCONS)		08	MC	6887	0	6887										Α				3125	3125	637						1		0
PALLET CONTAINERS (RACKS)		08	MC	6887	0	6887										Α				3125	3125	637						Ī		0
PALLET CONTAINERS (HALF INSI	ERTS)	08	MC	6887	0	6887										Α				3125	3125	637								0
										L		(4						1				L		V4						В
_							Fiscal Year 10							Ca	lenda	r Year 1	0					Year 11 Calendar Year 11						A L		
			S	Q	D	В	0	N	D		F	М	Α	М	,		Ť	0	N	D	-	F	М	A	М	1		А	s	A N
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ITEM			С	Υ	L	L	Т	V	С	N	В	R	R	Υ	N	L G	Р	Т	V	С	N	В	R	R	Υ	N	L	G	Р	
PALLET CONTAINERS (QUADCON	IS)Active	08	MC	1237	1200	37	37											İ												0
PALLET CONTAINERS (QUADCON	IS)Reserve	08	MC	1238	1200	38	38																							0
PALLET CONTAINERS (CONNECT	ORS)Active	08	MC	3712	2400	1312	240	240	240	240	240	112																1		0
PALLET CONTAINERS (CONNECT	ORS)Res.	08	MC	3713	2400	1313			240									Ī												0
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	Exhibit P-40, Budge	et Item Justif	ication Shee	et		Date:		May 2	009	
Appropriation / Budge Procurement, Marine	et Activity/Serial No: Corps (1109) / Engineer an	d Other Equip		P-1 Item Non	nenclature:	Famil	y of Construction	n Equipme	ent	
Program Elements: 0206315M Force	e Service Support Group	Code: A	Other Relate	d Program Ele	ements:					
	Prior Years	FY 2008	FY 2009	FY 2010	FY2010 OCO	FY2010 Total				
Proc Qty										
Gross Cost	274.2	121.7	143.4	37.7	35.8	73.6				
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc (P-1)	274.2	121.7	143.4	37.7	35.8	73.6				
Initial Spares										
Total Proc Cost	274.2	121.7	143.4	37.7	35.8	73.6				
Wpn Sys Proc U/C										

Family of Construction Equipment: The Family of Construction Equipment (FCE) line is a roll-up line that provides for the replacement/service life extension program (SLEP) of all United States Marine Corps construction equipment. This line provides for the funding of the Heavy Scraper, Road Grader, Backhoe Loader (BHL), Dozer D7, Medium Crawler Tractor, (and its associated attachments, winches and rippers), Compressor 260 cubic feet per minute (CFM), Runway Sweeper, Dozer W/angle Blade 1150, Dozer W/Bucket 1155, M9 Ace Combat Excavator, Engineer Equipment Trailer (EET) and Rapid Runway Repair (AKA; Airfield Damage Repair Kit), Dust Abatement System which is comprised of three (3) major components Water Distributor, Hydro-Seeder Trailer Mounted, and Hydro-Seeder Truck Mounted. Marine Corps Tactical Welding Shop (MCTWS), Vibratory Compactor, and the Multi-Terrain Loader with Work Tools and Carrier.

		FY2008	FY2009	FY2010	FY2010 OCC	FY2010 TOTAL
Active	Gross Cost	91.9	137.2	29.1	35.8	64.9
Reserve	Gross Cost	13.9	4.4	7.0	0	8.6
Total	Gross Cost	121.7	143.4	37.7	35.8	73.6

Exhibit P-40a, Budget Item Justifica	tion for	Aggrega	ted Item	s		Date:			May 200	9	
Appropriation / Budget Activity				P-1 Item	Nomenclatu	re:					
Procurement, Marine Corps (1109) / Engineer and Ot	her Fauin	ment (6)					Family of C	onstruction	n Equipme	ent	
Trood official, marine corps (1100) / Engineer and co		1110111 (0)	Prior				FY 2010		1	1	T
Procurement Items	Code	UOM	Years	FY 2008	FY 2009	FY 2010					
Airfield Damage Repair Kit Technology Insertion	Α	D		0	.386	0.623					
5 1 67		Q			VAR	VAR					
Armored Excavator Brush Hog	Α	D					1.228				
<u> </u>		Q					3				
Backhoe Loader	Α	D					2.074				
		Q					13				1
Compressor with Pneumatic Tools	Α	D		1.748			1.554				1
		Q		18			16				1
Drawbar Attachment	Α	D					0.036				1
		Q					16				1
Engineer Equipment Trailer	Α	D					2.354				1
<u> </u>		Q					52				
Ground Torch	Α	D					0.963				
		Q					25				
Multi Terrain Loader Work Tool Set	Α	D					0.234				
		Q					14				
Ripper Attachment	Α	D		0.144			0.192				
		Q		3			4				
Road Grader Motorized	Α	D					2.624				
		Q					8				
Roller, Compactor, Vibratory Self Propelled	Α	D					0.542				1
		Q					3				1
Scraper, Tractor Wheeled	Α	D					4.200				
·		Q					6				
Soil Test Kit	Α	D			1.119						
		Q			VAR		6				T
Tractor with Angle Blade	Α	D					4.750				T
		Q					19				
Tractor with Multipurpose Bucket	Α	D					1.785				T
		Q					7				T
Welding Shop	Α	D		0.855			2.823				
		Q		10			33				
Winch Attachment	Α	D		0.135			0.315				
		Q		3			7				
Program Management Support				2.053		0.840					
TOTAL				4.936	1.505	1.463	25.674				

		priation/ Budge			1.04		P-1 Line Ite	m Nomenclat	ure:	Weapon Sy	stem Type:	Date:		
Coot Analysis	Procui (6)	rement, Marine	e Corps (110		r and Other	=quipment	-	Construction E	Equipment				May 2009	
Weapon System	ID	Prior Yrs		FY 08			FY 09			FY 10	1		FY 10 OC)
Cost Elements	CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCos t \$000	Qty Each	UnitCost \$
M9 Ace Combat Excavator M9 Ace Combat Excavator Logistics			22059 10282	16	1378688	72000	52	1384615						
Medium Crawler Tractor (MCT)		81326	37968	131	289831	31012	107	289831				10144	35	289831
Multi-Terrain Loader (MTL) with work tools		7425	20695	122	169631	4919	29	169631						
120 MRoad Grader			11409	41	278268	33949	122	278268	9739	35	278268			
Runway Sweepers			4543	18	252389									
Scraper		13800	577	1	576787				26532	46	576787			
Tractor All Wheel Drive (BHL)		6050	6819	45	151533									
Integrated Logistics Support			2438											
TOTAL ACTIVE RESERVE		108601 108601	116790 102890 13900			141880 137473 4407			36272 29232 7040			10144 10144		

	Exhibit P-5a, Budget Procure	ment His	tory and Planning					Date:	May 200	9
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Engin	eer and Other Equipment (6)	Weapon	System Type:		P-1 Line I		enclature: of Constructi		-	
WBS Cost Elements:	Contractor and Location	Contract Method		Award Date	Date of First	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn	RFP Issue
Fiscal Years		& Type		Baic	Delivery	Luon		/wan:	Avail	Date
M9 Ace Combat Excavator										l
FY08	MARCORLOGCOM, Albany, GA	FFP	MCLB, Albany, GA	Jul-08	Apr-10	16	1378688	Yes	N/A	N/A
FY09	MARCORLOGCOM, Albany, GA	FFP	MCLB, Albany, GA	Oct-09	Apr-11	52			N/A	N/A
Medium Crawler Tractor (D7 Replacement)										
FY08	John Deere, Moline, IL	FFP	MCSC, Quantico, VA	Nov-07	Dec-08	131	289831	Yes	N/A	N/A
FY09	John Deere, Moline, IL	FFP	MCSC, Quantico, VA	Jan-09	Oct-09	107	289831	Yes	N/A	N/A
FY10	John Deere, Moline, IL	FFP	MCSC, Quantico, VA	Jan-10	Nov-10	35	289931	Yes	N/A	N/A
Multi-Terrain Loader (MTL) with work tools										
FY08	Caterpillar, Peoria, IL	FFP	DSCP, Philadelphia, PA	Jan-08	Oct-08	122	169631	Yes	N/A	N/A
FY09	Caterpillar, Peoria, IL	FFP	DSCP, Philadelphia, PA	Aug-09	May-10	29	169631	Yes	N/A	N/A
Road Grader										
FY08	Caterpillar, Peoria, IL	FFP	TACOM, Warren, MI	Sep-08	Mar-09	41	278268	Yes	N/A	N/A
FY09	Caterpillar, Peoria, IL	FFP	TACOM, Warren, MI	Mar-09	Sep-09	122	278268	Yes	N/A	N/A
FY10	Caterpillar, Peoria, IL	FFP	TACOM, Warren, MI	Jan-10	Nov-10	35	278268	Yes	N/A	N/A
Runway Sweepers										
FY08	TBD	TBD	TBD	TBD	TBD	18	252389	Yes	N/A	N/A
Scraper										
FY08	TBD	FFP	MCSC, Quantico, VA	TBD	TBD	1	576787	Yes	N/A	N/A
FY10	TBD	FFP	MCSC, Quantico, VA	TBD	TBD	46	576787	Yes	N/A	N/A
Tractor All Wheel Drive (BHL)										
FY08	Caterpillar, Peoria, IL	FFP	DSCP, Philadelphia, PA	Jan-08	Sep-08	45	151533	Yes	N/A	N/A

	EXHIBIT	Γ P-21, PROD	UCT	ION	SCH	IEDU	JLE													Date	e:				N	1ay 2	009				
Appropriation Code/CC/BA/BSA/Item Procurement, Marine Corps (1109) /		nment (6)					Wea	apon	n Sys	stem	ļ			P-1 I	tem	Non	nenc			v 0	E C	JNIC	TDI	ICTI		EQU		ENIT			
1 Tocarement, Marine Corps (1100)7	Engineer and Other Equi	pinent (o)					DE	200	LICT	ION	RAT	F			DD	OCL	IDEN		IT LE				IIX	0011	OIN	LQU	IF IVIL	-1111			
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M9 Ace Combat Excavator	MARCORLOGCOM						_				5						9			20							29			E	
Medium Crawler Tractor (MCT)	John Deere, Moline							1	2		40						2			13							5			E	
Multi Terrain Loader (MTL)	Caterpillar, Peoria, I						•			0	40						4			9							3			E	
Road Grader	Caterpillar, Peoria, I	L						1	2		30						12			6						1	8			E	
Runway Sweepers	TBD						TE	3D	TE	3D	TB	D																			
Scraper	TBD						TE	3D	TE	3D	TB	D																			
Tractor All Wheel Drive (BHL)	Caterpillar, Peoria, I	IL					•	1	3	0	40)					4			8						1	2			Е	
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M9 Ace Combat Excavator		FY08	МС	16	0	16		\vdash	\vdash	H	H			_	_	Α	\dashv		\forall				I				t		t		16
Medium Crawler Tractor (MCT)		FY08	MC	84	0	84		Α	Н		\vdash			+	_		寸		\vdash		25	25	25	9			t		t		0
Medium Crawler Tractor (MCT) Rese	erve	FY08	MC	47	0	47		Α						_	_		_								25	6					0
Medium Crawler Tractor (MCT)		FY09	MC	95	0	95		Ĥ						_	_		1					Α				Ť					95
Medium Crawler Tractor (MCT) Rese	erve	FY09	MC	12	0	12								_	_		1					A									12
Multi-Terrain Loader (MTL) with work		FY08	MC	62	0	62				Α					_		_ t		20	20	20	2									0
Multi-Terrain Loader (MTL) with work		FY08	MC	60	Ť	60				Ė					_		_ t		10			28	2								0
Multi-Terrain Loader (MTL) with work		FY09	MC	29	0	29									_		_ t												Α		29
Road Grader	. 100.0	FY08	MC	41	0	41									_		_ t	Α						20	20	1			Ė		0
Road Grader		FY09	MC	112	0	112								_	_		1							Α						10	102
Road Grader Reserve		FY09	MC	10	0	10								1	_		_ t							A						10	
Tractor All Wheel Drive (BHL)		FY08	MC	45	0	45				Α				_	_		1	30	15					Ė							0
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M9 Ace Combat Excavator		FY08	MC	16	0	16		\vdash	\vdash	H			3		-	-	+	\dashv	3		H		5	5	-		 	\vdash	1		0
M9 Ace Combat Excavator M9 Ace Combat Excavator		FY08 FY09	MC	52	0	52	Α	\vdash	\vdash	H			3		-	-	+	\dashv	3		H		Э	э	5	5	5	5	5	5	22
Medium Crawler Tractor (MCT)		FY09 FY09	MC	95	0	95		25	25	20	\vdash			\dashv	_	\dashv	┥		\vdash	-	\vdash		_		5	J	J	3	5	5	0
Medium Crawler Tractor (MCT) Medium Crawler Tractor (MCT) Rese	an/e	FY09 FY09	MC	12	0	12	23	20	20	5	7			\dashv	_	\dashv	┥		\vdash	-	\vdash		_				Ͱ		\vdash		0
Medium Crawler Tractor (MCT) Rese	il VC	FY109 FY10	MC	23	0	23		\vdash	\vdash	A	1			-	_	-	\dashv		\vdash	23	H		 		_		 		\vdash		0
Medium Crawler Tractor (MCT) Medium Crawler Tractor (MCT) Rese	an/e	FY10 FY10	MC	12	0	12		\vdash	\vdash	A	\vdash			\dashv	_	\dashv	┥		\vdash	23	10		_				Ͱ		\vdash		0
Multi-Terrain Loader (MTL) with work		FY10 FY09	MC	29	0	29		\vdash	\vdash	–				29	_	-	\dashv		\vdash	_	10		 		_		 		Α		0
Road Grader	10015	FY09 FY09	MC	122	20	102	20	20	20	20	20	2		23	_	\dashv	┥		\vdash	-	\vdash		_	Α			Ͱ		- ^		0
Road Grader Road Grader		FY109 FY10	MC	25	0	25	20	20	20	A	20	_		-	_	-	\dashv		\vdash	25	H		 	_	_		 		\vdash		0
Road Grader Reserve		FY10 FY10	MC	10	0	10		\vdash	\vdash	-	\vdash			-	-	\dashv	+	-	\vdash	23	10		_	\vdash		\vdash	1		\vdash		0
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M9 Ace Combat Excavator	MARCORLOGCOM	Albany, GA.						1	5	5	Ę	5					9	-		20						2	9	_		E	
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M9 Ace Combat Excavator		FY09	МС	52	30	22	5	5	5	5	2							-	+						-			┢	₩		0
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	Exhibit P-	40, Budget	Item Justifi	cation Shee	et		Date: May 2009
Appropriation / Budg				. (2)	P-1 Item No	menclature:	
Procurement Marine	e Corps (1109) /	Engineer and	d Other Equip		Oil B.L.	LD	Internally Transportable Vehicle
Program Elements: 0206313M Tactical	Air Control Syste	ems (Marine	Corps)	Code: A	Other Relat	ed Program	1 Elements:
	Prior Years	FY 2008	FY 2009	FY 2010	FY 2010 0C0	FY 2010 TOTAL	
Proc Qty	75	49	63	48	0	48	
Gross Cost	27.2	23.0	20.0	10.4	0.0	10.4	
Less PY Adv Proc							
Plus CY Adv Proc							
Net Proc (P-1)	27.2	23.0	20.0	10.4	0.0	10.4	
Initial Spares	0.3	0.0	0.5	0.5	0.0	0.5	
Total Proc Cost	27.5	23.0	20.4	10.9	0.0	10.9	
Flyaway U/C							
Wpn Sys Proc U/C							

Internally Transportable Vehicles - This funding will be used to procure the Internally Transportable Vehicle (ITV), associated spare parts, special tools, and initial training. The ITV will be a MV-22 Osprey internally transportable system that replaces the Interim Fast Attack Vehicle (IFAV), and provides infantry, reconnaissance, and special operations forces with a vehicle which can be vertically transported at the ranges and speeds required to support them. The ITV will be used by reconnaissance units, the Marine Expeditionary Unit (MEU) Ground Combat Element (GCE), and Special Operations Command (SOC) units. The ITV program is a USMC led, joint program with the US Special Operations Command.

Exhibit P-5 Cost Analysis	Procu	priation/ Bud rement Marir ment (6)			neer and	Other		Item Nomer Transporta		Weapon	System Type:		May 2009	
	1.1	Prior Yrs		FY 08			FY 09			FY 1	0		FY 10 OCO	ı
Weapon System Cost Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCos \$
Internally Transportable Vehicles		19943	10290	49	210000	13113	63	208143	9500	48	197917			
Production Support Costs Logistics Program Mgmt & Engineering ITV refurbishment Blast armor seats special parts/various Fielding spares		4784 1191 1328 27246 27246	332 4050 2000 1500 550 500 1000 2819			2600 1900 550 1800			400 360 100					

	Exhibit P-5a, Budget Procurem	ent Histor	y and Planning					Date:	May 200	9
Appropriation / Budget Activity/Serial No:		Weapon Sy	stem Type:		P-1 Line I				•	
Procurement Marine Corps (1109) / Engineer ar	nd Other Equipment (6)					Intern	ally Transpor	table Ve	hicle	
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method &	Location of PCO	Award Date	Date of First	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn	RFP Issue
riscal feats		Туре		Date	Delivery	Lacii		Avaii:	Avail	Date
Internally Transportable Vehicles										
FY08	General Dynamics, St. Petersburg, FI		MARCORSYSCOM	Apr-09	Jul-09	49	210000	YES	NO	Mar-04
FY09 FY09	General Dynamics, St. Petersburg, FI General Dynamics, St. Petersburg, FI		MARCORSYSCOM MARCORSYSCOM	Apr-09 Jun-09	Jul-09 Sep-09	21 42	208143 208143		NO NO	Mar-04 Mar-04
FY10	General Dynamics, St. Petersburg, Fl		MARCORSYSCOM	Nov-09	Feb-10	48	197917		NO	Mar-04
REMARKS:									<u> </u>	

	FY 08/09 BUI	DGE	ΓEX	HIBIT I	P-21, P	RODU	СТІС	ON S	СН	EDU	JLE									Date	e:				Ma	ay 20	09				
Appropriation Code/CC/BA/BSA/Item Procurement, Marine Corps (1109) /		Equip	ment (6)			Wea	pon (Syste	m				P-1	Item	Nome	enclat	ure:		Inter	nally	Tran	spor	table	Veh	icle					
							Pl	ROD	UCT	ION	RAT	ГΕ			PR	ROCI	JREN	ИΕΝ	IT LE	AD	TIMI	ES									
ITEM	Manufacturer's	s NAN	1E / LC	CATIO	N		M	SR	EC	ON	M	AX		T Prid Oct 1	or to		After 1		I	nitial g PL	I	R	leord Ifg P			то	TAL			t of asure	e
Internally Transportable Vehicle	General Dyna	mics, S	St. Pete	ersburg,	FL			1	6	3	1	2		3			3			2			1				5		F	mo	onth
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Internally Transportable Vehicle		80	MC	49		49																			Α			4			3
		09	MC	21		21																			Α			5	5	5	
		09	MC	42		42																					Α	<u> </u>	₩	5	3
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ITEM			С	Y	L	L	Т	V	С	N	В	R	R	Υ	N	L	G	Р	Т	V	С	N	В	R	R	Y	N	L	G	Р	
Internally Transportable Vehicle		08	MC	49	12	37	8	8	8	8	5																				0
		09	MC	21	15	6	6																				_	丄	₩	丄	(
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Appropriation / Budge	EXHIBIT P-2	40, Budget Item .	Justificatio	on Sheet			Date: Ma [,]	y 2009		
	t Activity/Serial No: Corps (1109) / Enginee	er and Other Equipr	ment (6)		P-1 Item Nor	menclature:	· · · · · ·	Bridge Boat	s	
Program Elements:	Service Support Group		Code:	Other Relate	ed Program El	ements:		<u> </u>		
02000101011110100	Prior Years	FY 2008	FY 2009	FY 2010	FY 2010 OCC	FY 2010 Total				
Proc Qty	66									
Gross Cost	40.6	57.0	0.0	0.0	0.0	0.0				
Less PY Adv Proc			1							
Plus CY Adv Proc			1							
Net Proc (P-1)	40.6	57.0	0.0	0.0	0.0	0.0				
Initial Spares										
Total Proc Cost	40.6	57.0	0.0	0.0	0.0	0.0				
Flyaway U/C										
Wpn Sys Proc U/C	.6									
These systems provi	ide the Marine Corps w	والمستقبلة والمستميم والمستقبل								ibbon Bridges

Exhibit P-40a, Budge	t Iten	ı Justi	fication for A	Aggregate	d Items		Date:	/ 2009			
Appropriation / Budget Activity Procurement, Marine Corps (1109) / Engin	eer an	d Other	Equipment (6		P-1 Item No		Boats				
Procurement Items	Code	UOM	Prior Years	FY 2008	FY 2009	FY 2010	FY 2010 OCO				
Bridge Erection Boat Trailers	Α	D	1.068	0.701	0.0	0.0	0.0				
		Q	66	42							
Logistics Support	Α	D		1.207	0.0	0.0	0.0				
		Q									
	Α	D									
		Q									
	^	D									
	Α	Q									
	Α	D									
		Q									
Total			1.068	1.908	0.000	0.000	0.000				
		_									
Active		D D	0.761 0.307	1.908 0.000						-	
Reserve Reserve Quantity		Q	19	0.000							
				-							

			dget Activity/			P-1 Line Ite	m Nomencl	ature:	Weapon S	System Type	:	Date:		
Exhibit P-5 Cost Analysis	Procu Other	Equipment	rine Corps (1 (6)		eer and		Bridge Boats	6					May 200	
Weapon System		Prior Yrs		FY 08			FY 09			FY 10			FY 10 OC	0
Cost Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	TotalCost \$000
Bridge Boat		12030	11959	42	284738									
Bridge Floating IRB 80T 100T Technical Support		19676	28959 1063	5	5791800									
Rafting Set, Ribbon Bridge, Construction Outfit		1938	13072	6	2178667									
TOTAL ACTIVE RESERVE		33644 33644												

E	Exhibit P-5a, Budget Procure	ment Hist	ory and Planning					Date:	May 2009	9
Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Engineer and	Other Equipment (6)	Weapon S	system Type:		P-1 Line It	em Nome	enclature: Bridge Bo	•		
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method & Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail?	Date Revsn Avail	RFP Issue Date
FY08										
Bridge Root	Aluminum Chambered Boats Inc, Bellingham, WA	, FFP	MCSC, Quantico, VA	Jun-08	Aug-08	42	284,738	Yes	N/A	N/A
Bridge Floating IRB 80T 100T	General Dynamics, Germany	FFP	TACOM, Warren, MI	Feb-08	Nov-09	5	5,791,800	Yes	N/A	N/A
Rafting Set, Ribbon Bridge, Construction Outfit	General Dynamics, Germany	FFP	TACOM, Warren, MI	May-08	Apr-10	6	2,178,667	Yes	N/A	N/A
REMARKS:										

EX	EXHIBIT P-21, PRODUCT priation Code/CC/BA/BSA/Item Control No.								E											Date:					May	2009	9			
Appropriation Code/CC/BA/BSA/Item Co Procurement, Marine Corps (1109) / Enç		r Equipn	nent (6)			We	apo	n S	yste	em			P-1	Ite	m N	ome	ncla	atur	e:	ı	Brid	ge E	Boat	s					
							Р	RC	DU	JCT	101	1		PR	OC	CUR	EM	EN.	ΤL	EAD	ΛIΤ	/IES	;							
ITEM	Manufacturer'	s NAME	E/LO	CAT	ION	1	MS	SR	EC	ON	MA	λX		T Pi Oct			Γ Aft Oct 1	er lı		al Mf		eor			TC	TAL			Unit Meas	
Bridge Boat			d Boa	ts Ind	C,		1		5	5	7	,					8			2						10		E		
Bridge Floating IRB 80T 100T	General Dyna	mics, G	ermar	ny			1		2	2	5	,					4		2	21						25		Е		
Rafting Set, Ribbon Bridge, Construction Outfit		mics, G	ermar	ny			2	2	4	1	Ę	5					7		23					30		E				
										Fis	scal	Ye													ıl Year 09 alendar Year 09				B A	
									_	Ca	alen	ldar	Ye	ar 0	3	_	_	_	_		Cal	enda	r Ye	ar 09	,		L A			
ITEM	Y V T E				B A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	JUN	J U L	A U G	S (С	N C	Α	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	N C E	
Bridge Boat	Aluminum Chambered Boats Inc. Bellingham, WA General Dynamics, Germany General Dynamics, Germany F S Q T C Y FY08 MC 42 FY08 MC 5 Outfit FY08 MC 6 F S Q T C Y FY08 MC 5 Outfit FY08 MC 5 FY08 MC 5 FY08 MC 5 FY08 MC 5				0	42			-						Α		5	5	5	5 5	5	5	5	2				╁	_	0
Bridge Floating IRB 80T 100T				-	0	5			1		Α								\dagger		Ť	٦	J	_				+	+-	5
Rafting Set, Ribbon Bridge, Construction	Outfit	4			0	6								Α				1	1	1	L								\sqsubset	6
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			V	Т	D E L	B A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	JUN	J	Α		O C T	N C	J A N	F E B	М	A P R	M A Y	J U N	J	A U G	S E P	A N C E
ITEM									C					Ť	IN	_	G	P	_	v (IN	Ь	ĸ	ĸ	Ť	IN	_	G	Р	
Bridge Floating IRB 80T 100T		4			0	5		1	[1	1	1	1			Ц		_										$oxed{oxed}$	igsquare	0
Rafting Set, Ribbon Bridge, Construction	Outfit	FY08	MC	6	0	6		_	_		\vdash		2	2	2	\vdash	_	╀	4	+	┡	╄	L	_			_	\vdash	₩	0
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REMARKS:																		_	_			•	-							

	Exhibit F	P-40, Budget Item	Justificatio	n Sheet			Date: May 2009					
Appropriation / Budg	get Activity/Serial No:				P-1 Item No	menclature:						
Procurement, Marine	e Corps (1109) / Engi	ineer and Other Equi	pment (6)		Fam	ily of Comba	t Field Feeding	g System (Fo	ormerly Rapid	l Deployable ł	(itchen)	
Program Elements:			Code:	Other Relate	ed Program E	lements:						
0206315M Force Se	ervice Support Group		Α									
	Prior Years	FY 2008	FY 2009	FY 2010	FY 2010 OCO	FY 2010 Total						
Proc Qty												
Gross Cost	4.9	18.9	4.2	2.2	0.1	2.2						
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	4.9	18.9	4.2	2.2	0.1	2.2						
Initial Spares		0.0	0.0	0.0								
Total Proc Cost	4.9	2.2	0.1	2.2								
Flyaway U/C												
Wpn Sys Proc U/C								•				

Family of Combat Field Feeding System: Consists of those items used to store, prepare, transport, & serve combat rations in a non-garrison environment while maintaining force protection through distributed operations and sanitation capabilities.

Tray Ration Heater System (TRHS): The TRHS is a self-contained, multi-fuel heater system designed for operation on a moving vehicle. It provides heat on-the-move capability to feed hot Tray Pack meals to Marines in remote areas. The TRHS consists of a hot water tank with a built-in fuel fired heater assembly. Legacy system fielded first in 1996, limited to "Boil in Can" rations, backbone capability for the ground combat units. The enhanced TRHS (E-TRHS) includes core equipment items with additional food service preparation equipment packaged in a small refrigerated container. This container serves for shipping/storage and is size and loading compatible with all other TriCon (8x8x6.5) shipping boxes in inventory. The E-TRHS has all capabilities of TRHS and provides greater versatility in preparation of combat rations, specifically intended to allow preparation of Unitized Group Ration - A (UGR-A ration) option being fielded to infantry and artillery battalions.

TRHS PIP 13y old Tanks: PIP for the 13 year old tanks of the Tray Ration Heater System are an update to the current tanks and will replace the tanks that have been in service and are at the end of their life cycle.

E-TRHS PIP M59 Field Range: PIP for the M59 Field Range is to update the ranges to current technology for the use of the airtronic burner. This will satisfy the Marine Corps' need for a burner service and a one fuel battlefield.

Food & Beverage Container: Food and Beverage containers allow hot or cold meals to be transported from preparation sites and delivered to forward feeding areas. The life cycle replacement for Marine Corps unique food and beverage containers will be a standard system item in use by other services to facilitate logistics and interoperability.

Expeditionary Field Kitchen (EFK): Intended to provide a rapidly mobile feeding capability that has a minimal logistic load on the using command. Leverages existing Army and Marine Corps hardware to achieve the capability of supporting 500 personnel per meal with a trailer mounted 20ft ISO container that can be used on the trailer or ground mounted.

EFK Power Gen Buy 10Kw: These generators will provide a power source for operation of the EFK.

E-TRHS Power Gen Buy 3Kw: These generators will provide a power source for operation of the Enhanced-Tray Ration Heater System.

The Range Outfit, Field, Gasoline is a component of the EFK used by Marines in Iraq.

Exhibit P-40a, Budget Item Justific	ation fo	r Aggreg	ated Items			Date:			May 2	2009			
Appropriation / Budget Activity				P-1 Item No	omenclature								
Procurement, Marine Corps (1109) / Engineer and	Other Eq	uipment (6)			Family of C	ombat Field F	eeding Systen	n (Formerly	Rapid Deplo	yable Kitchen)	
		11014	D: V	F) / 2222	E) / 2222	E) (00 10	FY 2010 OCO						
Procurement Items	Code		Prior Years	FY 2008	FY 2009	FY 2010	000						
Tray Ration Heater System (TRHS)	Α	D	4.927	0.331									
		Q	579	9									
TRHS PIP 13y old Tanks	Α	D		0.463	0.594	2.016							
		Q		28	33	112							
	+ .			0.400	0.400	0.440							
E-TRHS PIP M59 Field Range	Α	D		0.100	0.180	0.143							
		Q		20	60	60							
E-TRHS Power Gen Buy 3Kw	А	D		0.320									
		Q		32									
EEK Dawar Can Buy 40Ku	A	D		0.750									
EFK Power Gen Buy 10Kw	A	Q		52									
Food Containers & Beverage Containers	Α	D		1.765	0.718								
		Q		5296	2080								
Expeditionary Field Kitchen (EFK)	А	D		15.200	2.693								
Expeditionary Field Kitchen (EFK)		Q		76	12								
Range outfit, field, gasoline	Α	D					0.055						
		Q					34						
											1		
Total			4.927	18.929	4.185	2.159	0.055						

	Exhibit P-40, Bu	dget Item Justi	ficatio	on Sheet			Date: May 20	009			
Appropriation / Budg Procurement, Marine	et Activity/Serial No: Corps (1109) / Engineer	and Other Equipm	ent (6)		P-1 Item No	omenclature:	ITE	MS LESS	THAN \$5	5M	
Program Elements: 0206315M Force Se	rvice Support Group	Co		ther Relate	ed Program	Elements:					
	Prior Years	FY 2009	FY 2010	FY 2010 OCO	FY 2010 TOTAL						
Proc Qty											
Gross Cost	237.8	33	.8	8.7	8.8	39.1	47.8				
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc (P-1)	237.8	33	.8	8.7	8.8	39.1	47.8				
Initial Spares	0.5										
Total Proc Cost 238.3 33.8 8.7					8.8	39.1	47.8				
Flyaway U/C				•			•				
Wpn Sys Proc U/C											

This is a roll-up line which contains many different engineering and other equipment related items for less than \$5 Million each. The funds in this budget line allow procurement of the following items.

Corrosion Prevention and Control (Dehumidified Storage Buildings) - These funds will be used to install controlled humidity protection shelters to reduce and/or eliminate the negative effect of wind, rain, salt, ultra violet rays, chemical, mildew, rust, mold, sand etc on Marine Corps Assets to focus on maintaining and preserving equipment in an operatir state during the items' service life.

Engineer Equipment Armoring - This program provides for significant improvements to a various pieces of engineering equipment by enhancing their capabilities and protection from direct fire, indirect fire and Improvised Explosive Devices.

Engineer Modification Kits - This program provides for significant improvements to a various pieces of engineering equipment by enhancing their capabilities and improving readiness.

Family of Tools, Kits and Chests provide specific tool kits, including the specific chest or case to store and transport the tools, to perform specific missions assigned to engineer units, such as carpentry, grubbing or clearing areas with pioneer type tools, destruction/demolition, masonry, electrical (base camp support), plumbing, etc.

Construction Shop Kit; Pioneer Platoon Kit; Pioneer Squad Kit; Carpenter Kit; Mason Kit. Funding fluctuation is due to program being accelerated.

Family of Incident Response System (FIRS) is comprised of:

- a. Chemical/Biological Incident Response Force (CBIRF) is a task organized unit that, when directed, will forward-deploy and/or respond to a credible threat of a chemical, biological, radiological, nuclear, or high yield explosive (CBRNE) incident to assist local, state, or federal agencies and designated Combatant Commanders in the conduct of consequence management operations by providing capabilities for agent detection and identification, casualty search, rescue, and personnel decontamination; and emergency medical care and stabilization of contaminated personnel.
- b. The Marine Expeditionary Unit Enhanced Nuclear, Biological, and Chemical (E-NBC) Force Protection Sets: E-NBC Force Protection Set is a tailored set of COTS consequence management equipment, modeled on CBIRF capabilities, that provides the Marine Expeditionary Unit (MEU) Commander an enhanced capability to provide force protection above that available from his normal NBC defensive equipment.
- c. 4th Marine Expeditionary Brigade (Anti-Terrorist) (MEB (AT)): 4th MEB (AT) was formed after the attacks on 11 September 2001. Specific units of the 4th MEB (AT) will be equipped and trained for the use of consequence management COTS equipment that allows these units the capability to conduct limited consequence management operations to support the Combatant Commanders and U.S. Embassies.

		Date:
Exhibit P-40, Budget Item Justification Sheet		May 2009
Appropriation / Budget Activity/Serial No:	P-1 Item Nomenclature:	TTT 10 1 FOO THAN 0FM
Procurement, Marine Corps (1109) / Engineer and Other Equipment (6)		ITEMS LESS THAN \$5M
Floodlight Set Upgrade will provide the Marine Corps with a light, compact, dies lighting capability and availability while decreasing the logistic footprint.	sel engine, modern traile	r mounted, telescopic rotatable floodlight. It will increase
Interim Passenger Helo Aircrew Breathing Device (IPHABD) - This system concludes holster, and a Location Marking Kit (LMK) consisting of a dye marker, strobe light Squadrons and is given by the crew chief to each passenger boarding a USMC is surviving an over-water crash.	t, whistle, and "buddy line	e". This system is maintained by the Helicopter
Stand Off Detection and Robots - Standoff detection with robotics is a central eschool for Home Station Training for engineer units support to maneuver, safety	•	
		•

Exhibit P-40a, Budget Item Justificat	ion fo	r Aggr	egated Item	s		Date:		May 2009	
Appropriation / Budget Activity Procurement, Marine Corps (1109) / Engineer and Other Equipmer	nt (6)			P-1 Item No		S THAN \$5M		.,	
Procurement Items	Code	UOM	Prior Years	FY 2008	FY 2009	FY 2010	FY 2010 OCO		
Corrosion Prevention and Control	А	D				0.490			
Family of Engineer Tool Kits, Sets and Chests		Q	9.187	4.503	2.168	2.132			
			VAR	VAR	VAR	VAR			
Floodlights	Α	D Q		0.128 VAR					
Interim Pass Helo Aircrew Breathing Device	Α	D	8.494	4.662	1.309	1.287			
		Q		VAR	VAR	VAR			
Stand Off Detection and Robots	Α	D Q					4.095 VAR		
		Q					V/UX		
TOTAL				9.293	3.477	3.909	4.095		
ACTIVE									
RESERVE									

Exhibit P-5 Cost Analysis	Procur	ement Marin	get Activity/So e Corps (110		neer and Ot		P-1 Line Ite	m Nomeno		Weapon Sy	stem Type		Лау 2009	9
	Equipr	ment (6) Prior Yrs		FY 08			FY 09			FY 10			, Y 10 OC	
Weapon System Cost Elements	ID CD	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000		UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
Corrosion Prevention and Control (CPAC) Engineer Mod Kits Engineering Equipment Armoring Family of Incident Response		10627 60896	6800 2999		VAR	5230	VAR			VAR		34960	VAR	VAR
TOTAL ACTIVE RESERVE		71523 71523				5230 5230			4883 4883			34960 34960		